

FIG.1

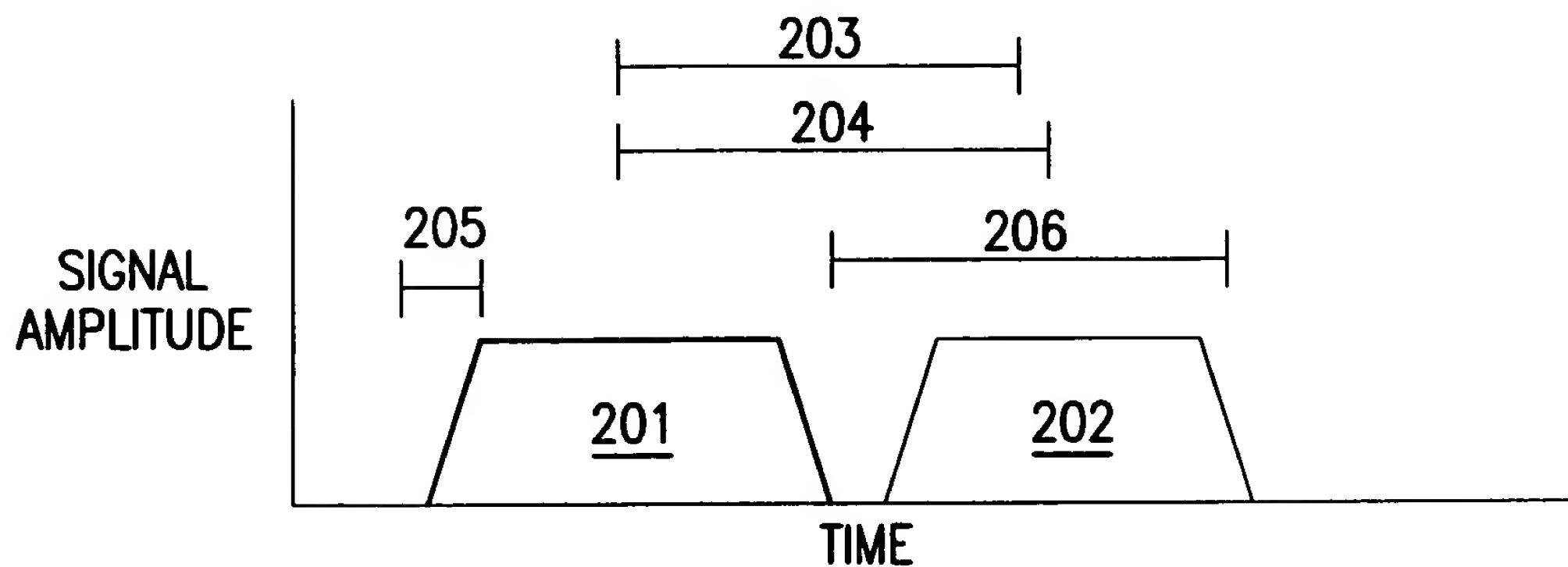


FIG.2A

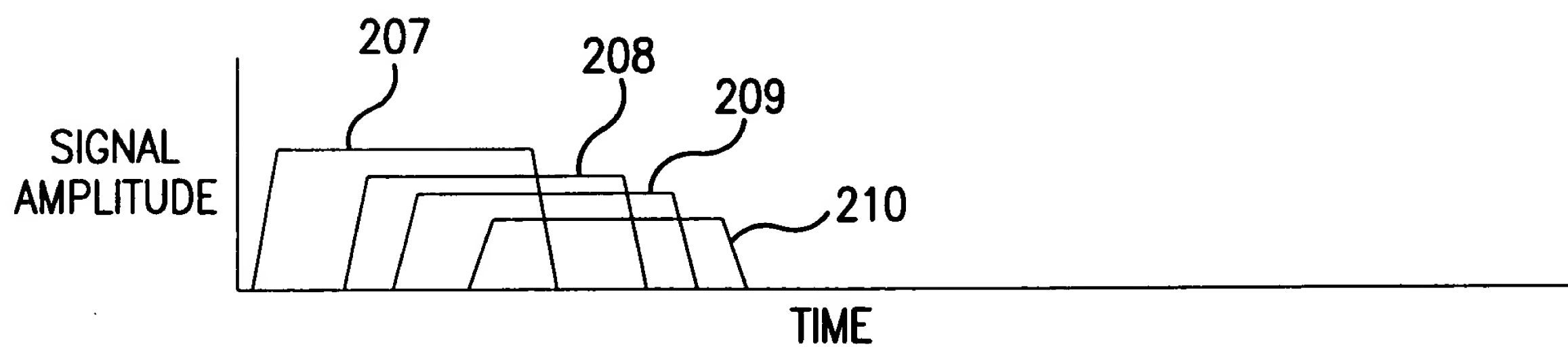


FIG.2B

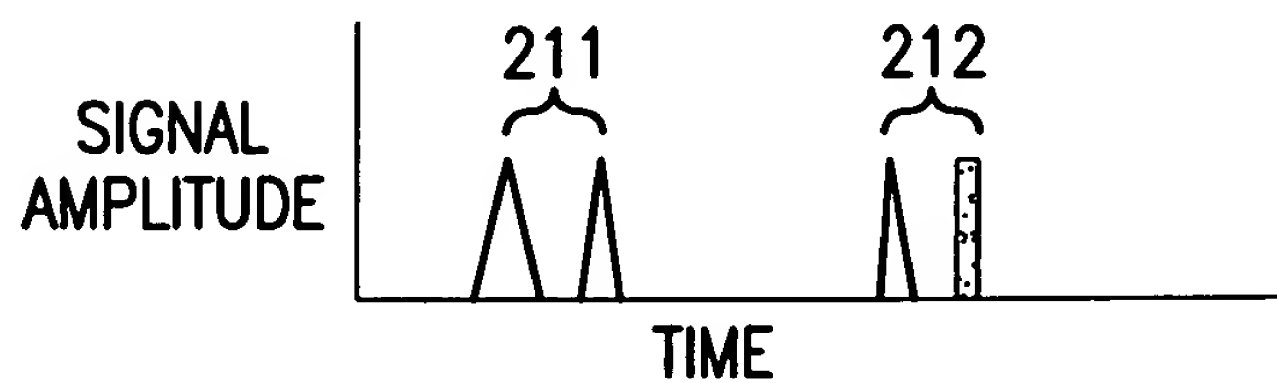


FIG.2C

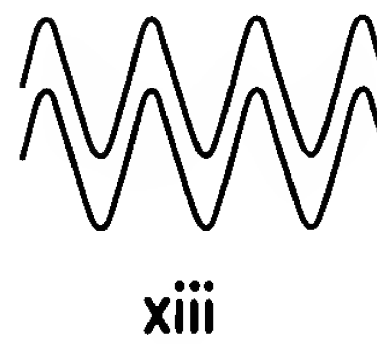
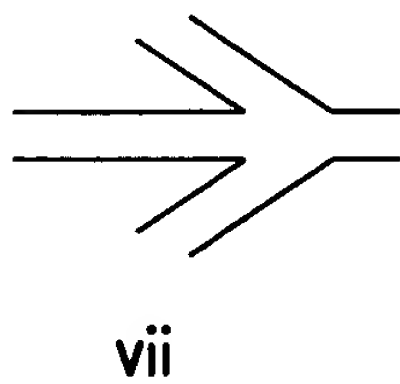
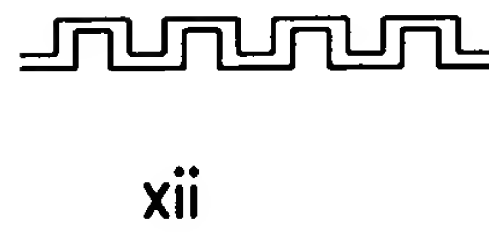
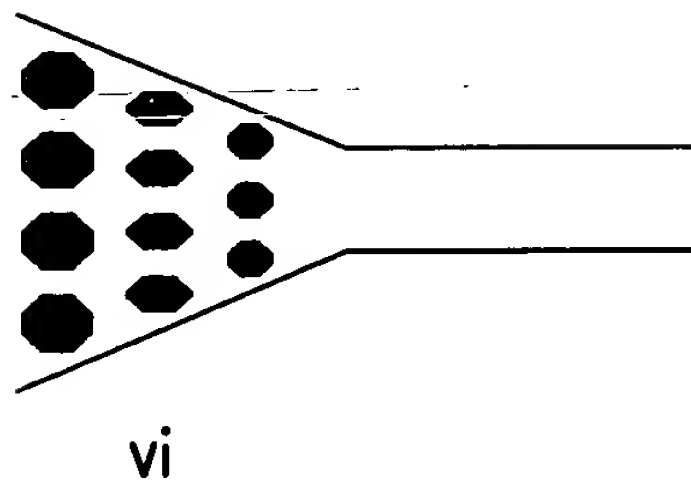
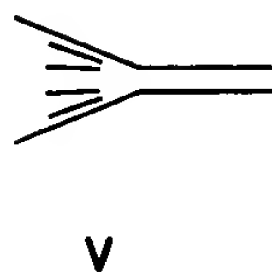
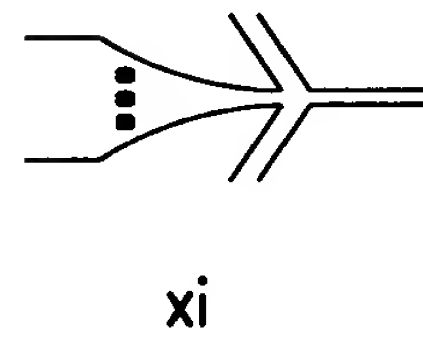
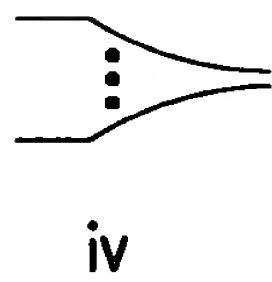
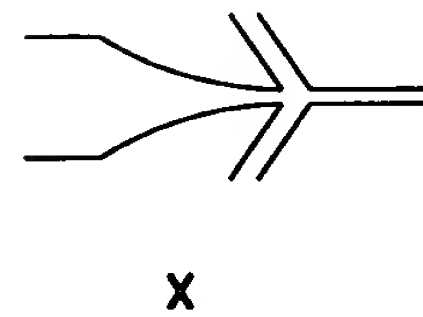
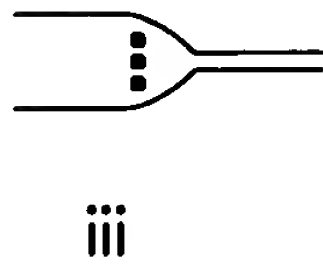
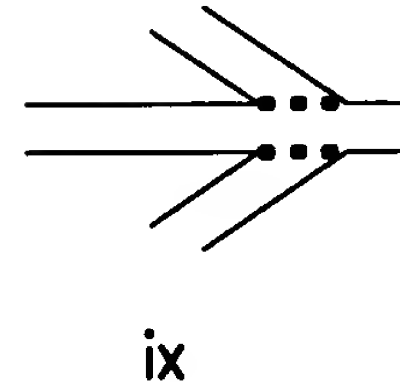
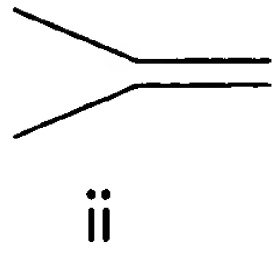
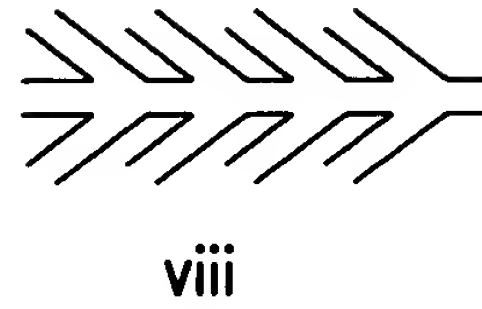
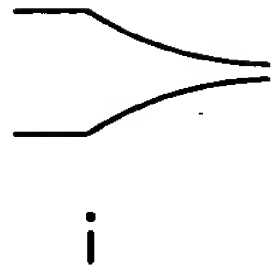
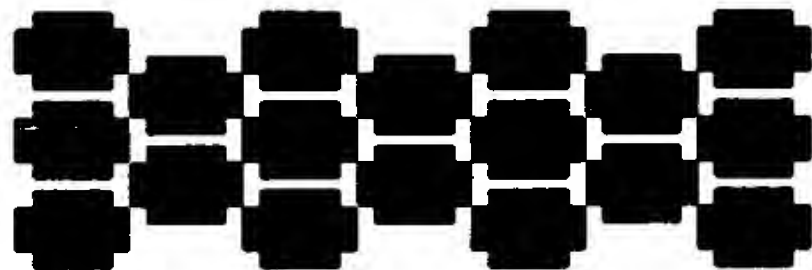
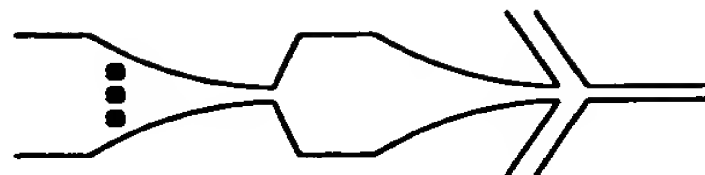


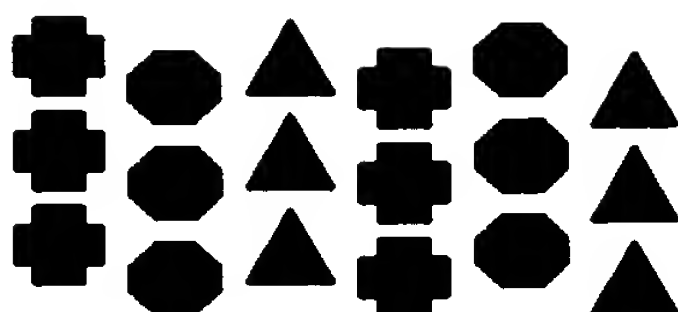
FIG.3A



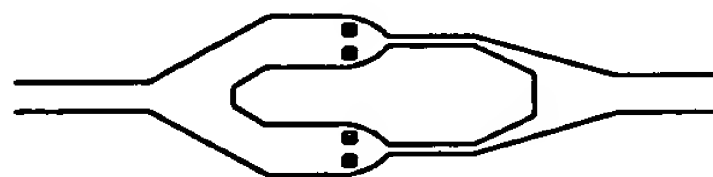
xiv



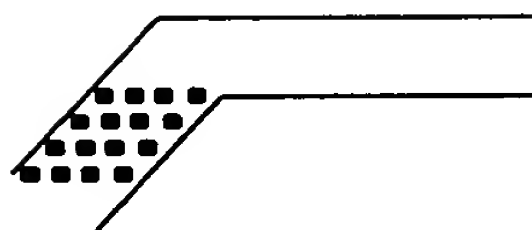
xvix



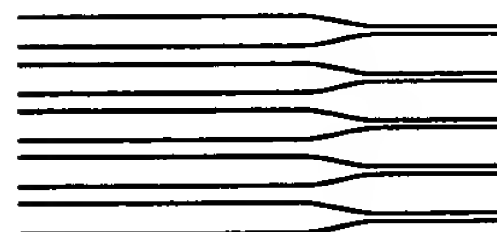
xv



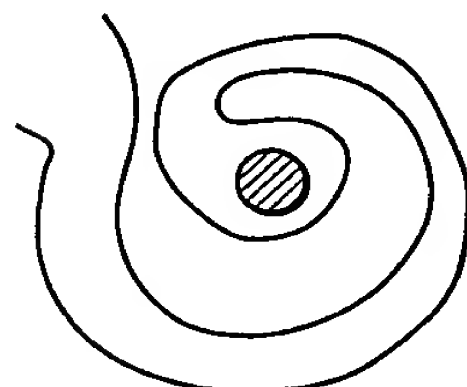
xx



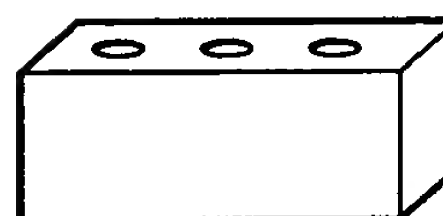
xvi



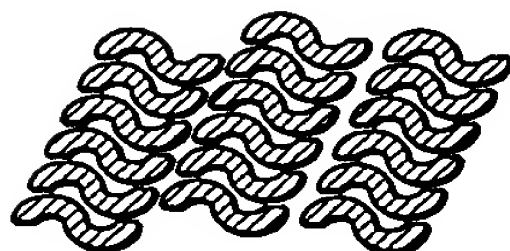
xxi



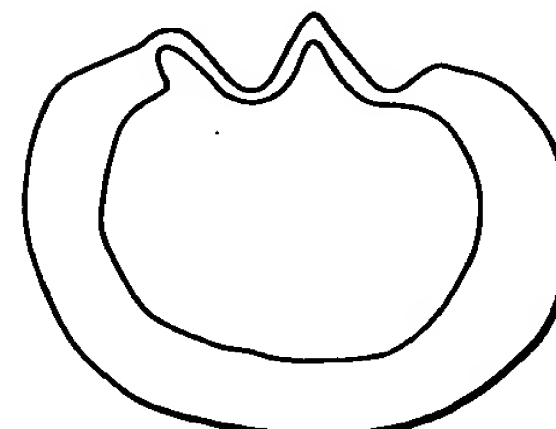
xvii



xxii



xviii



xxiii

FIG.3B

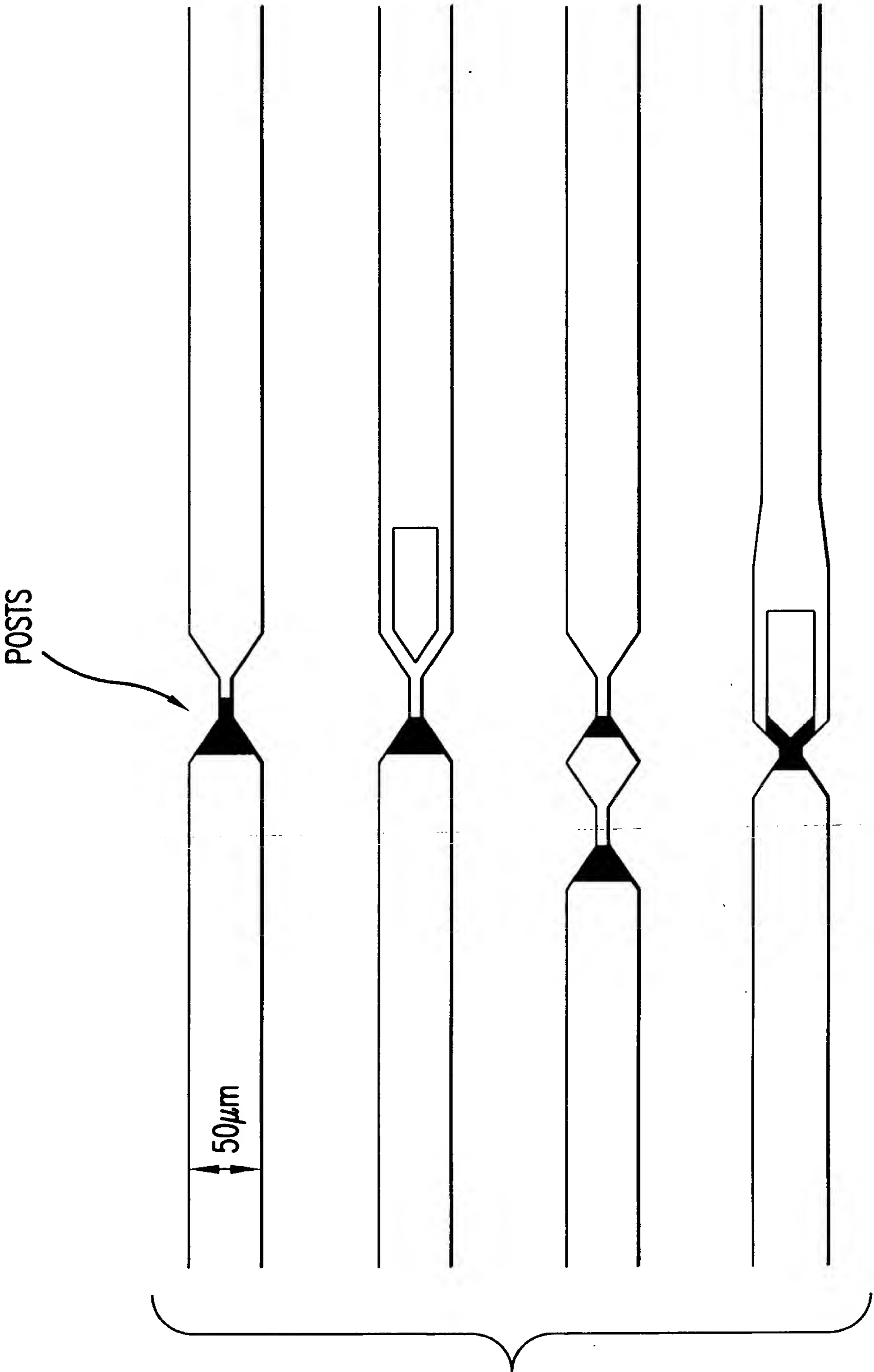


FIG. 4A

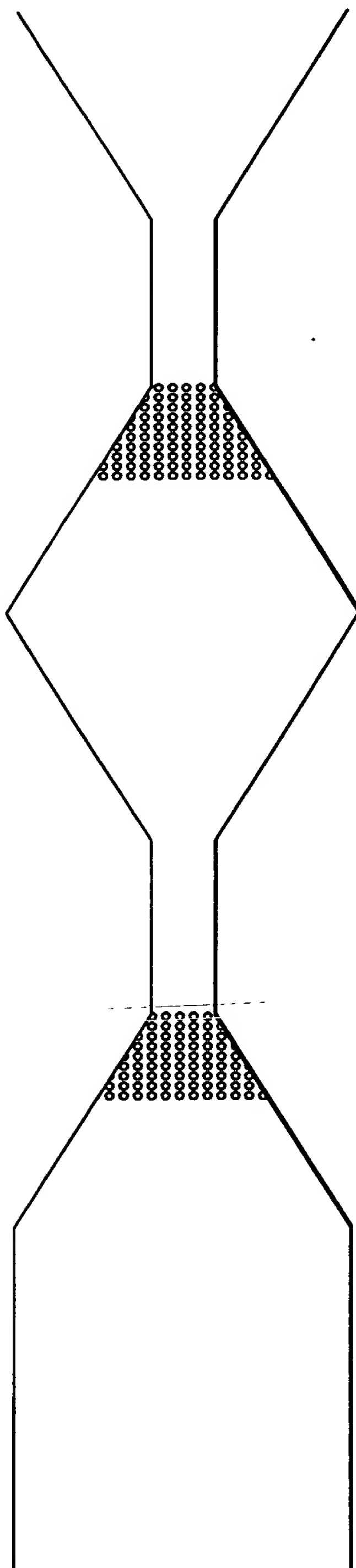


FIG. 4B

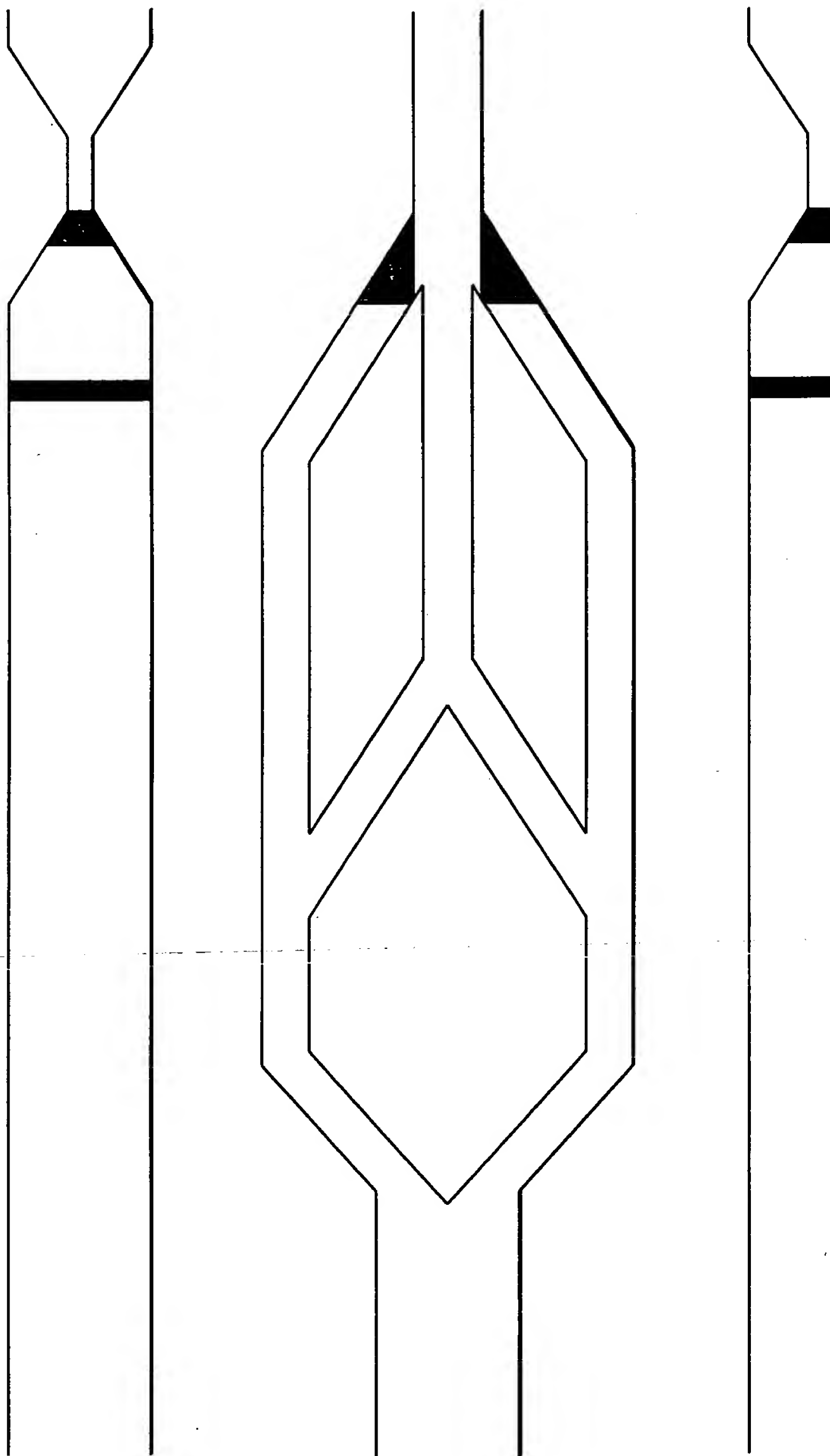


FIG. 4C

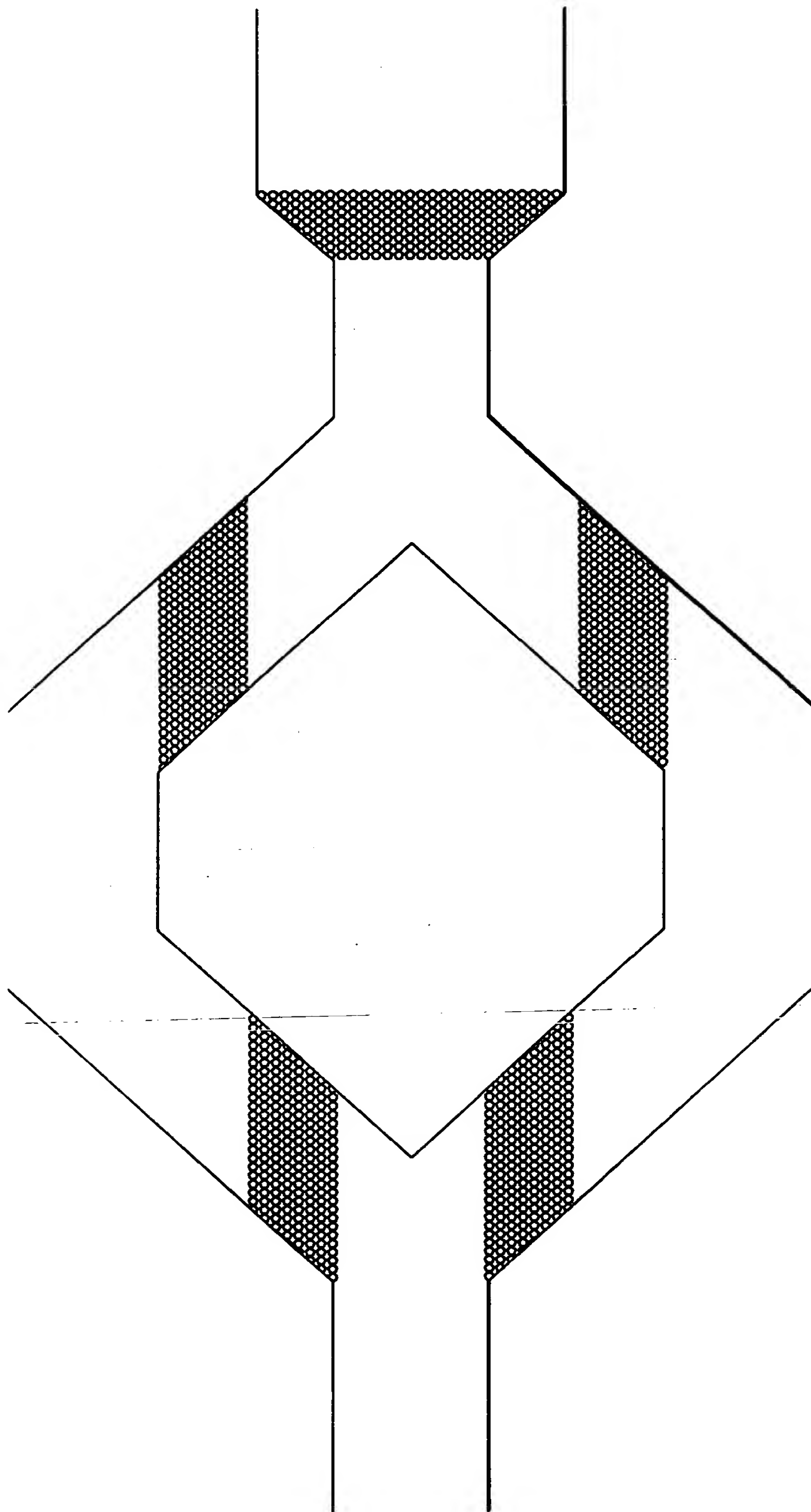


FIG. 4D

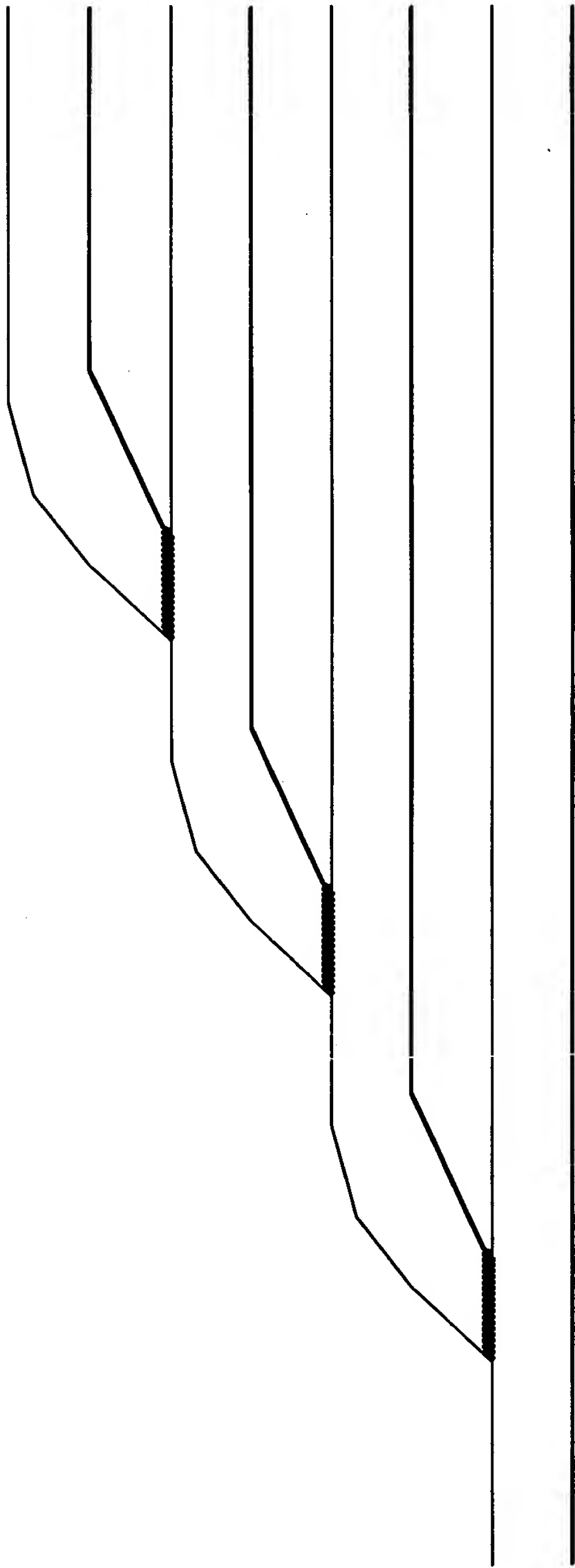


FIG.4E

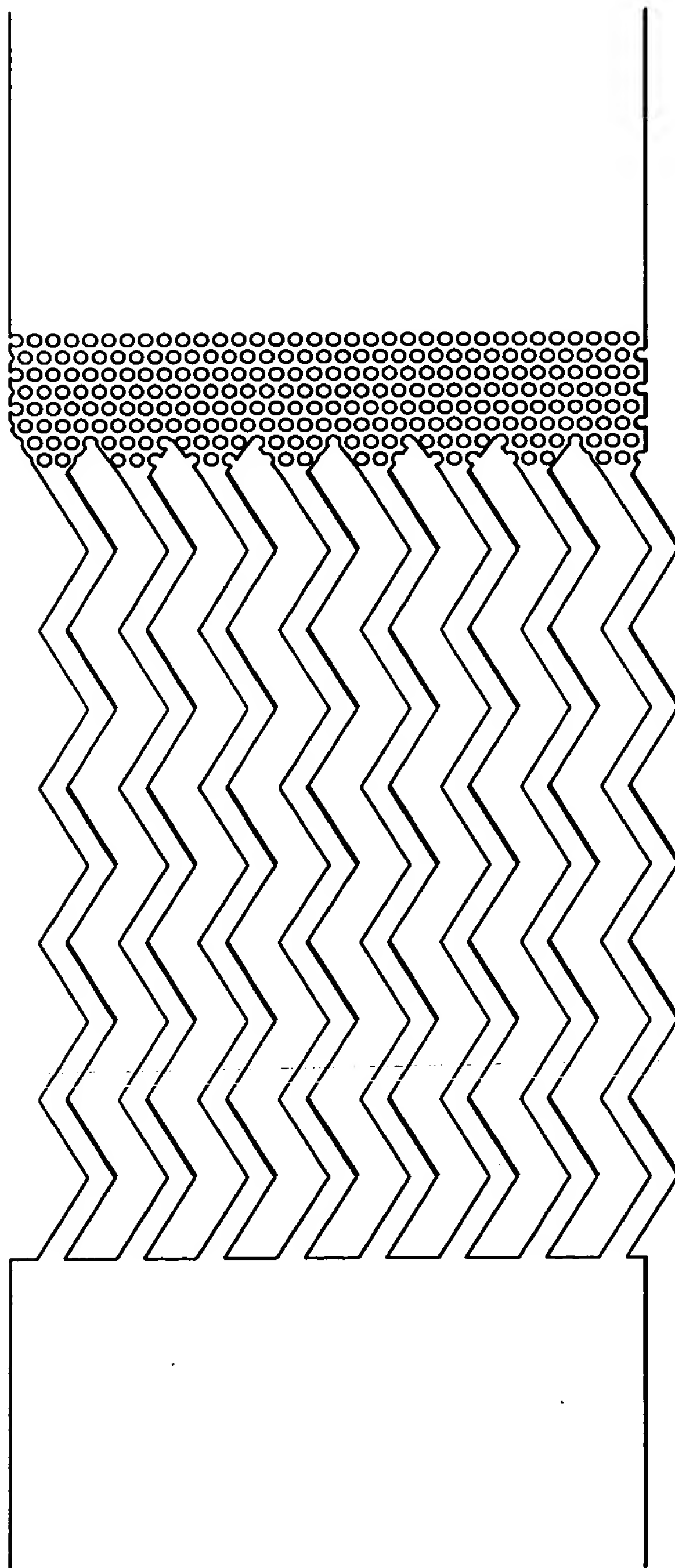


FIG. 4F

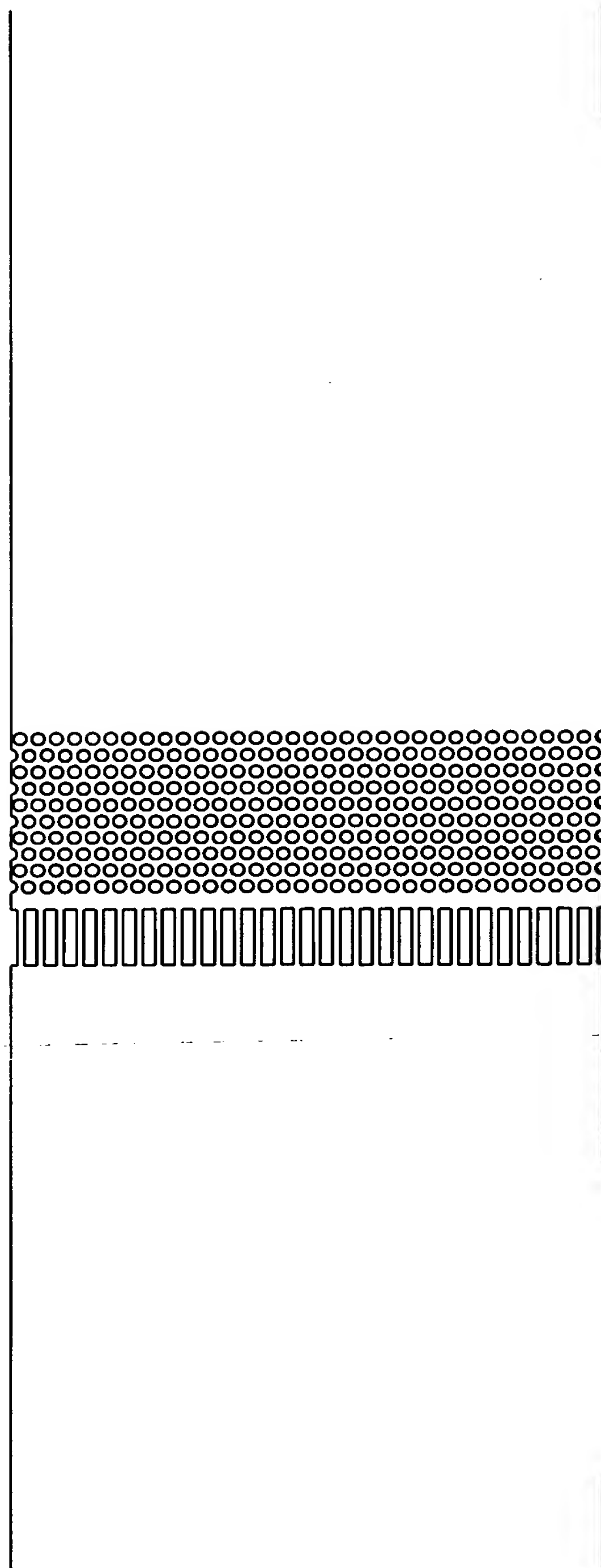


FIG. 4G

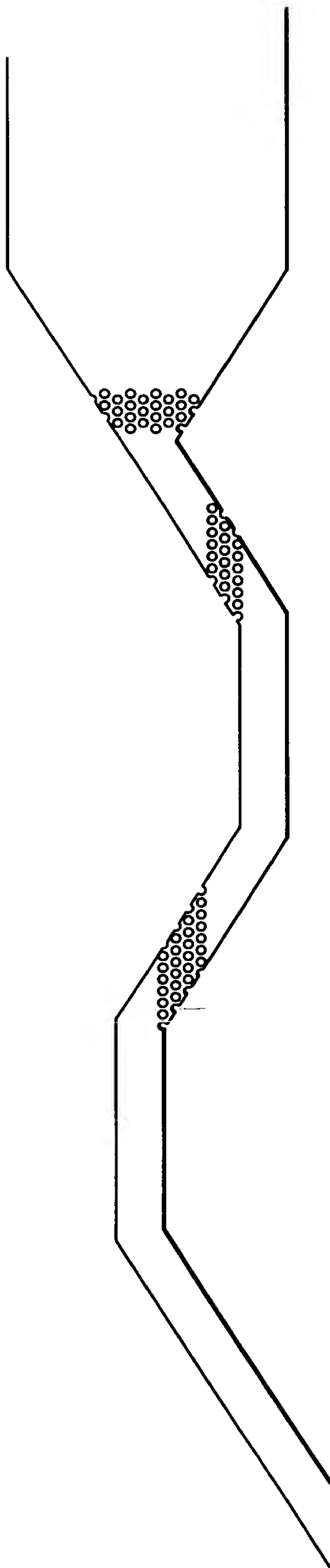


FIG. 4H

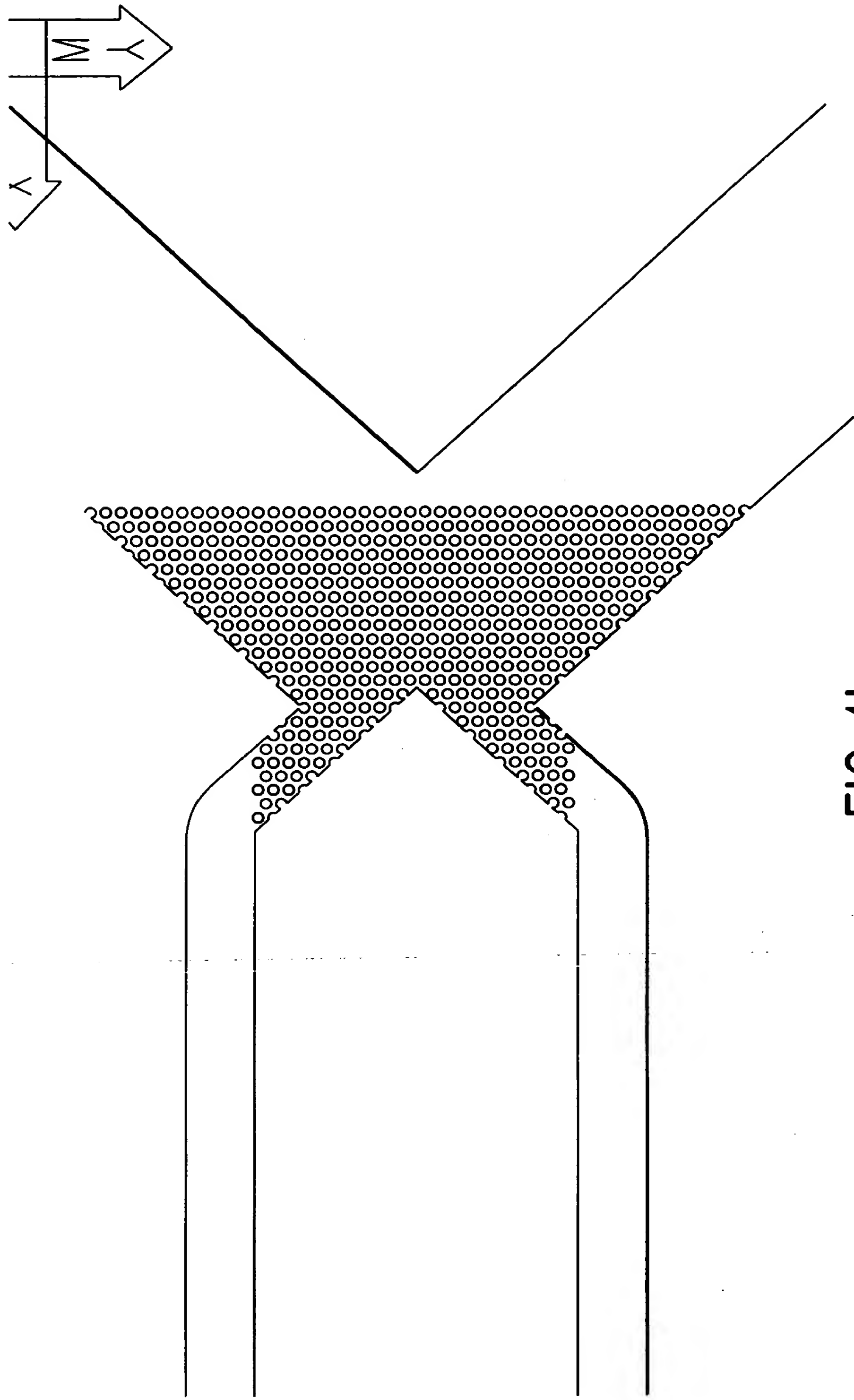


FIG. 4I

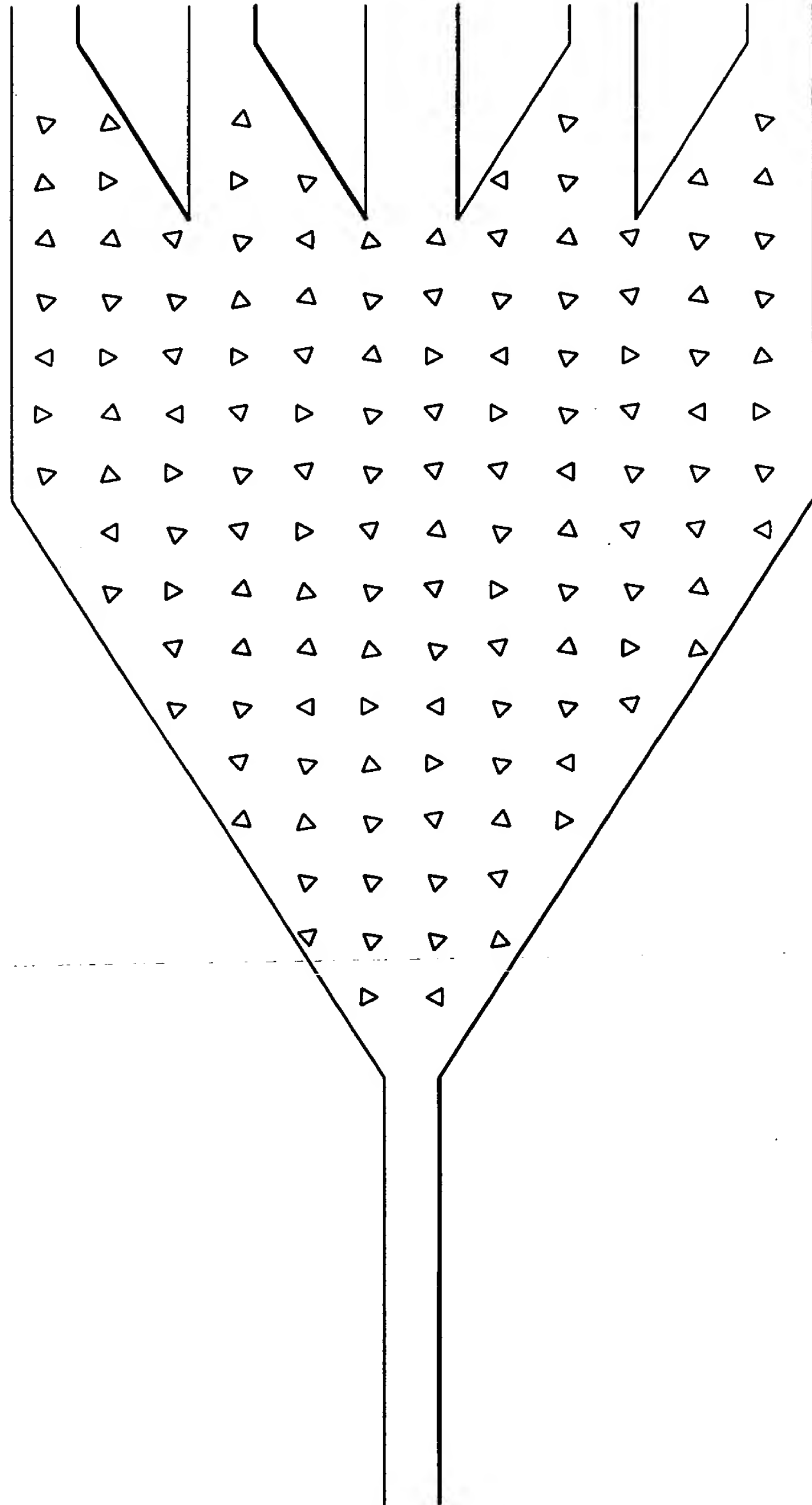


FIG. 4J

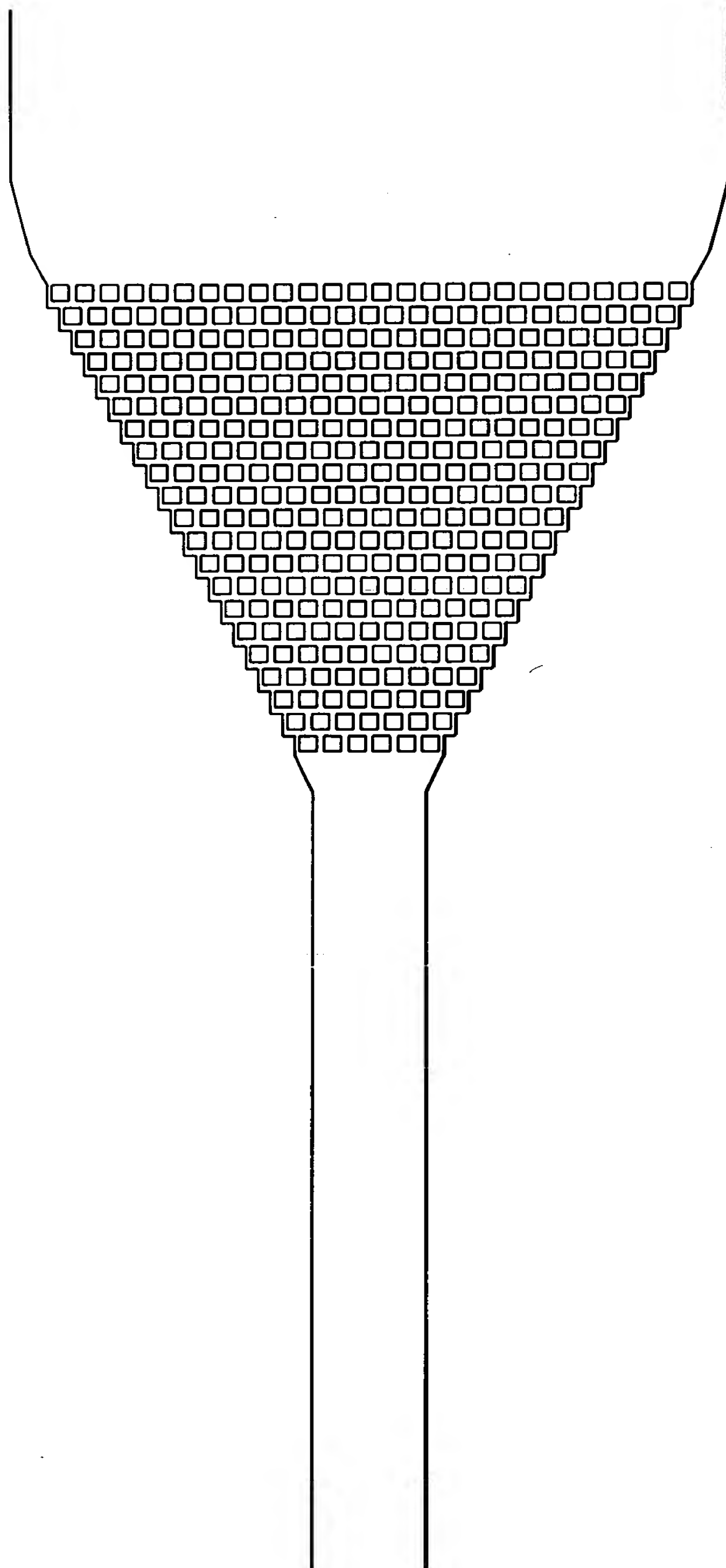


FIG. 4K

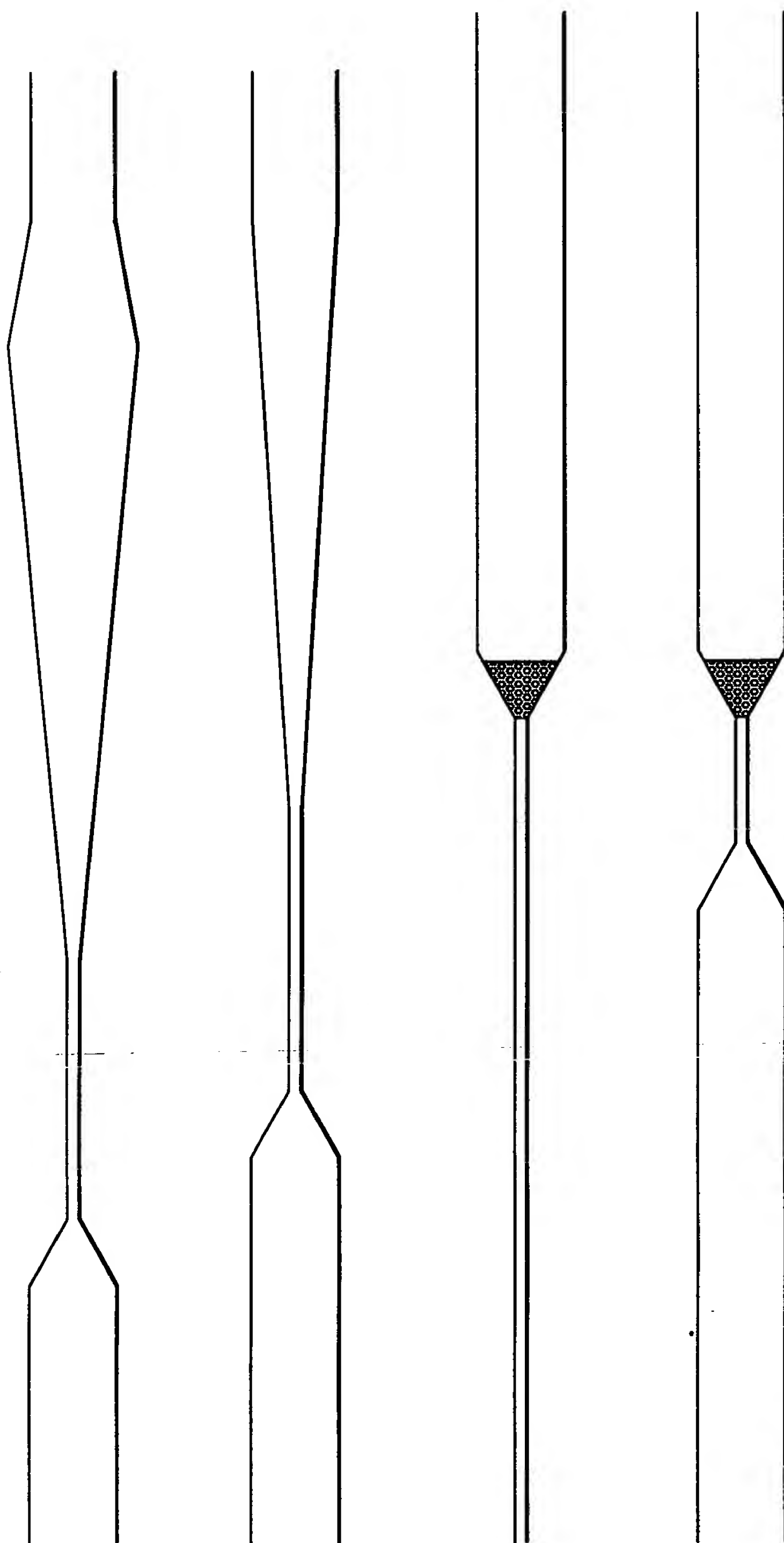


FIG. 4L

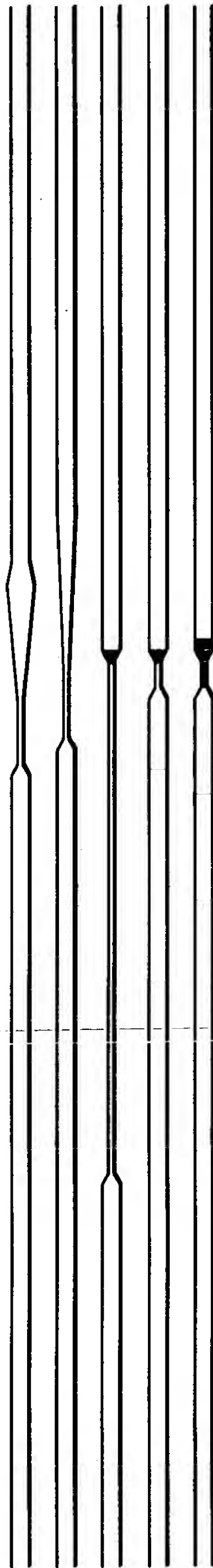
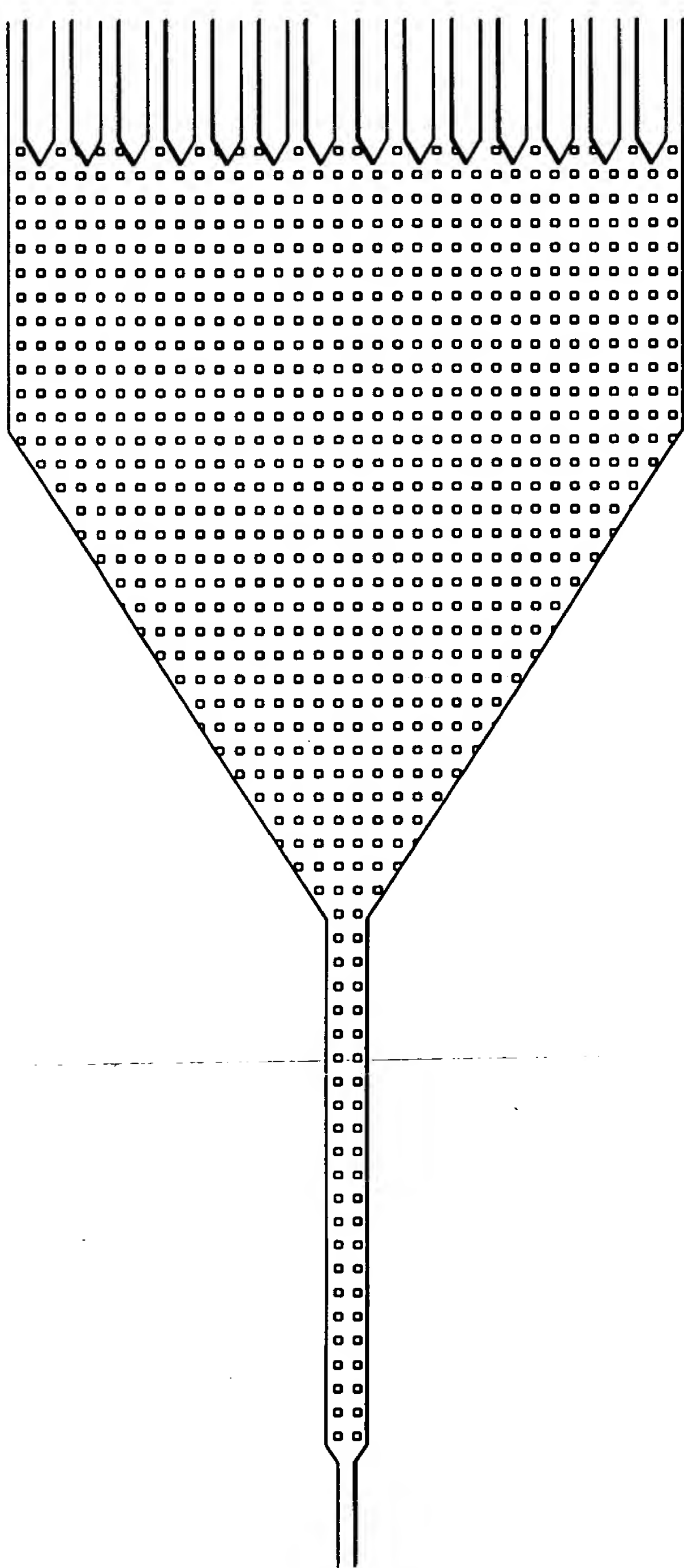


FIG. 4M

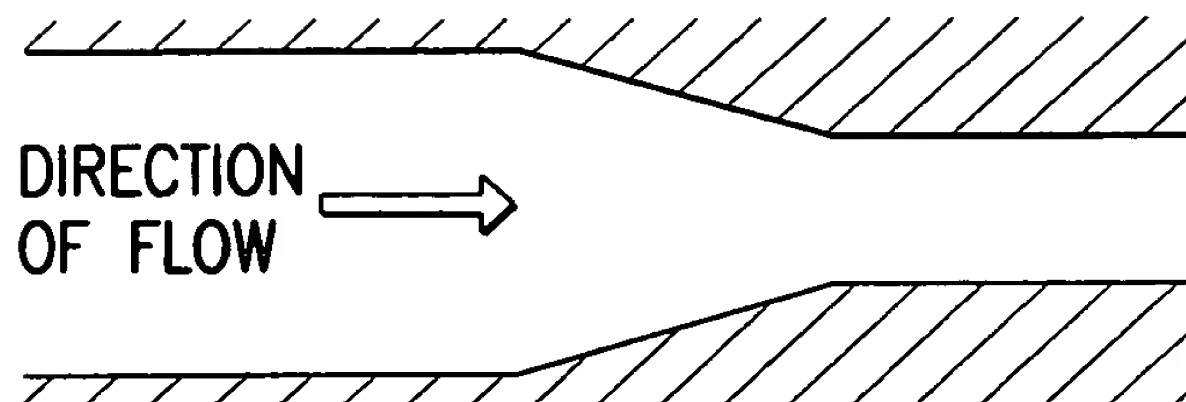


FIG.5

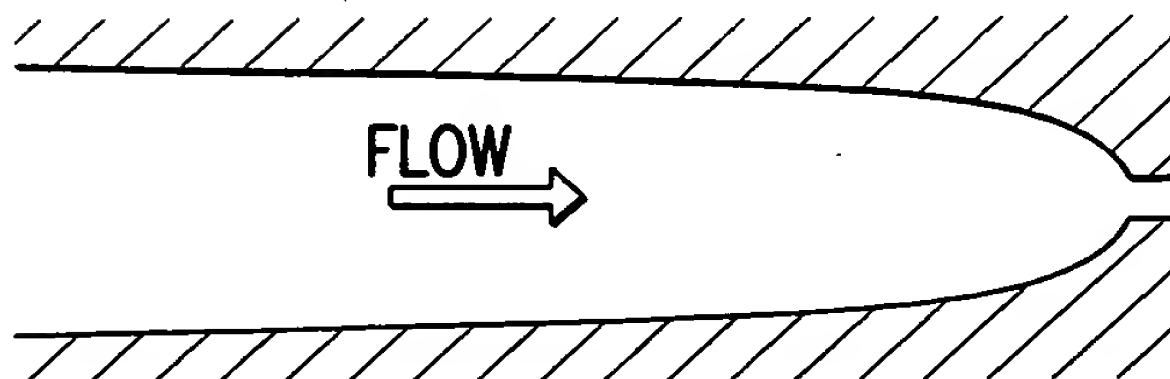


FIG.6

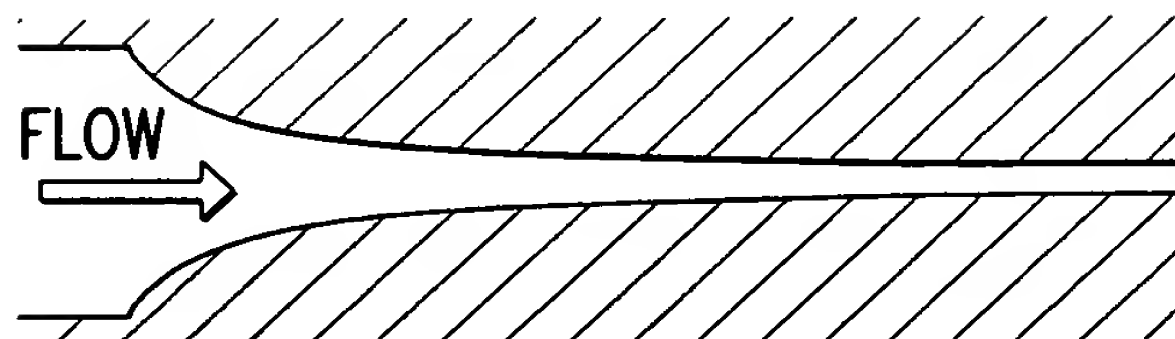


FIG.7

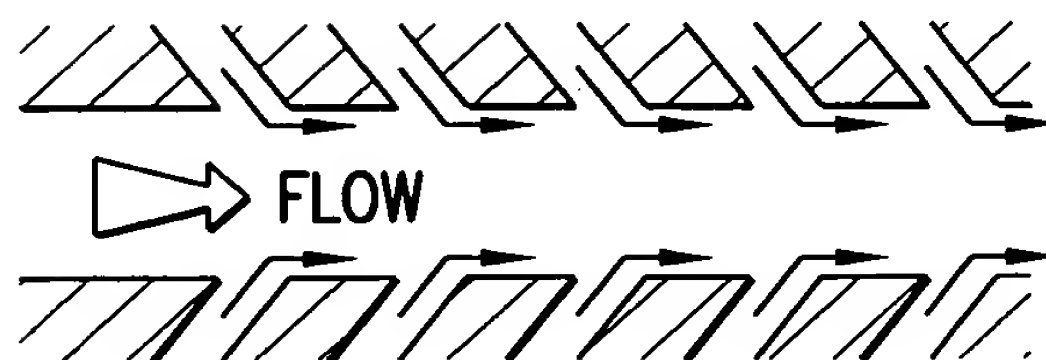


FIG.8

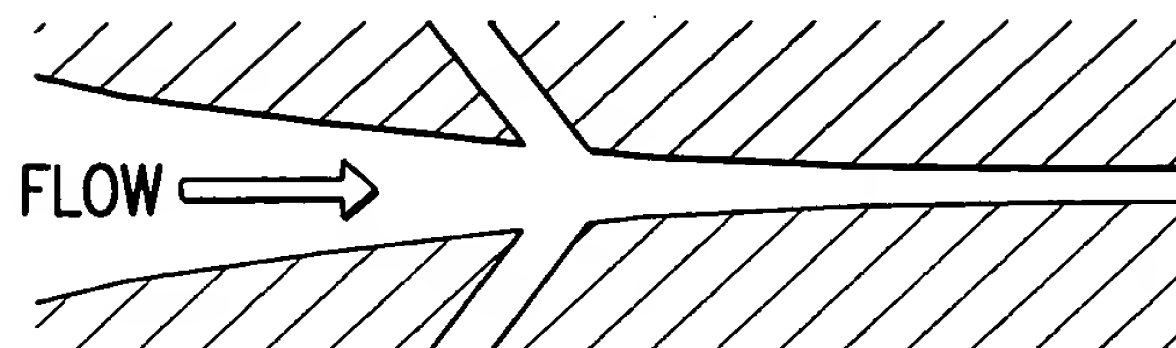


FIG. 9

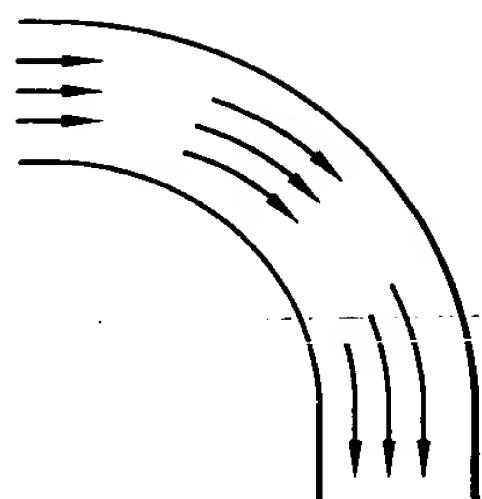


FIG. 10A

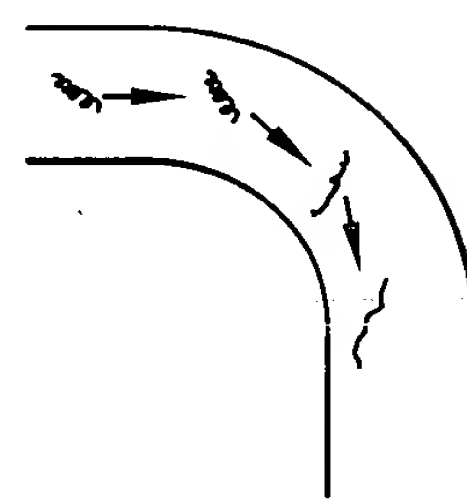


FIG. 10B

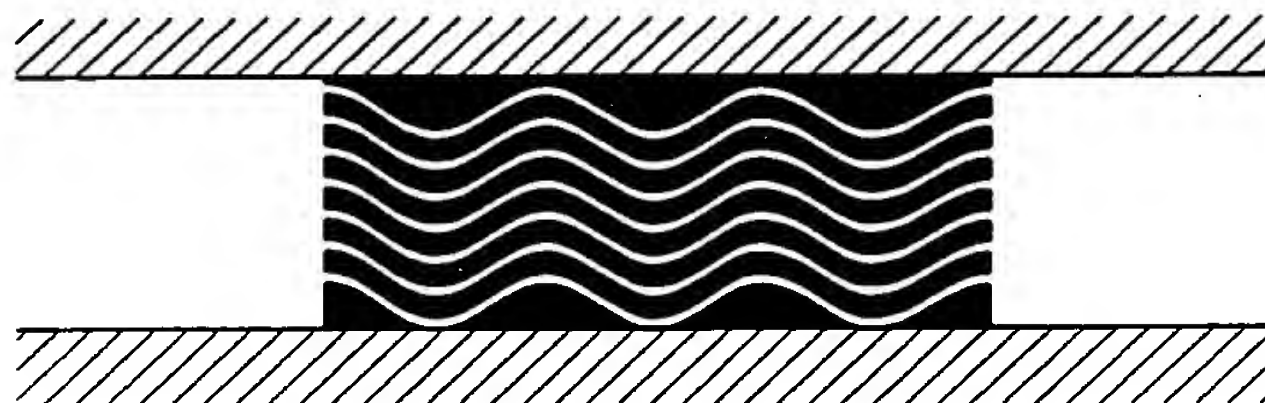


FIG.11

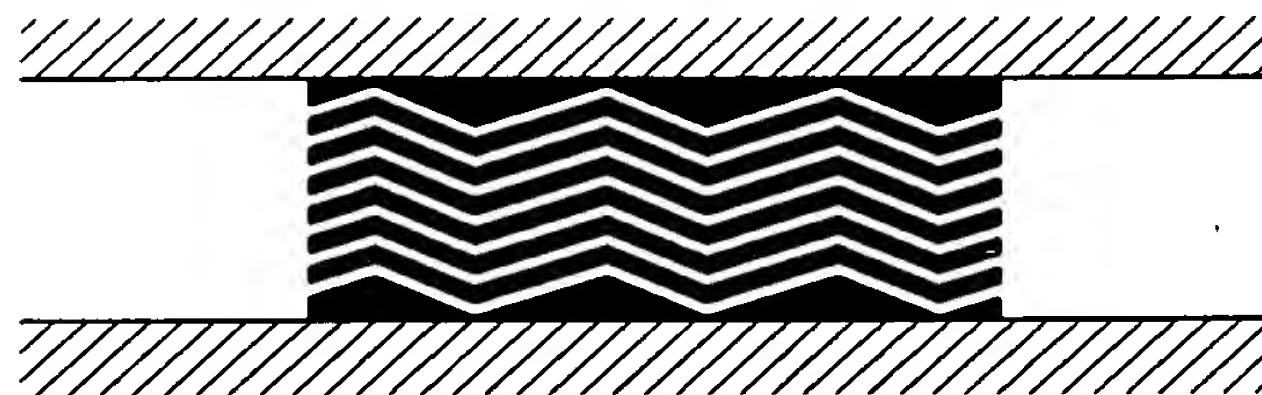


FIG.12

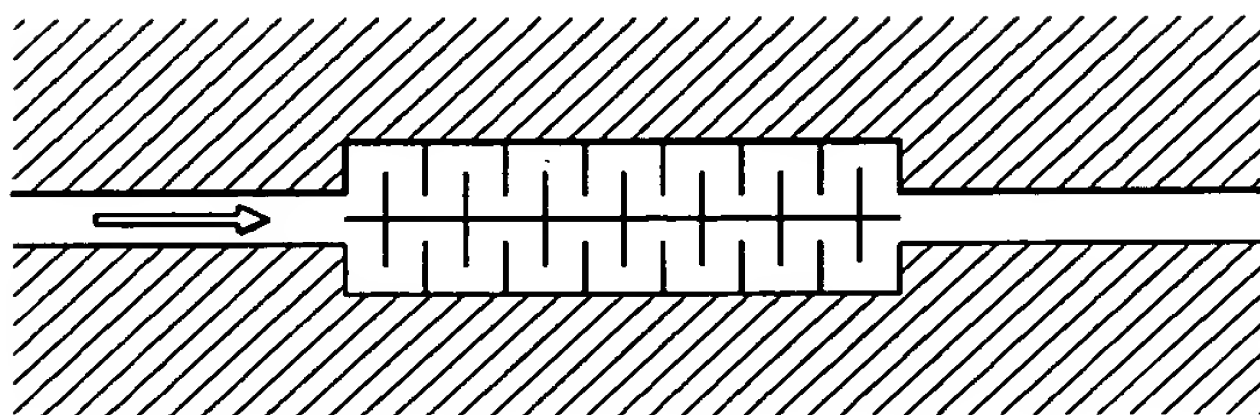


FIG.13

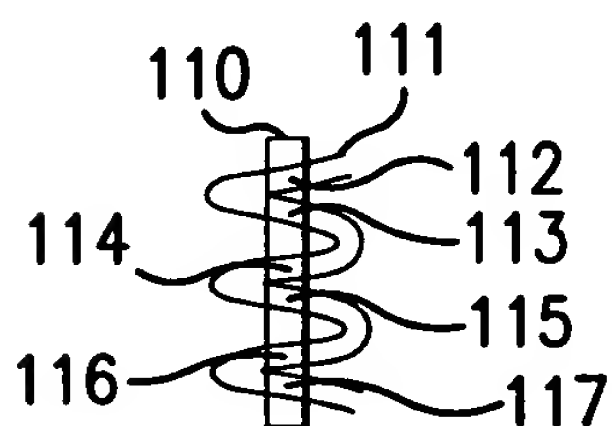


FIG.14

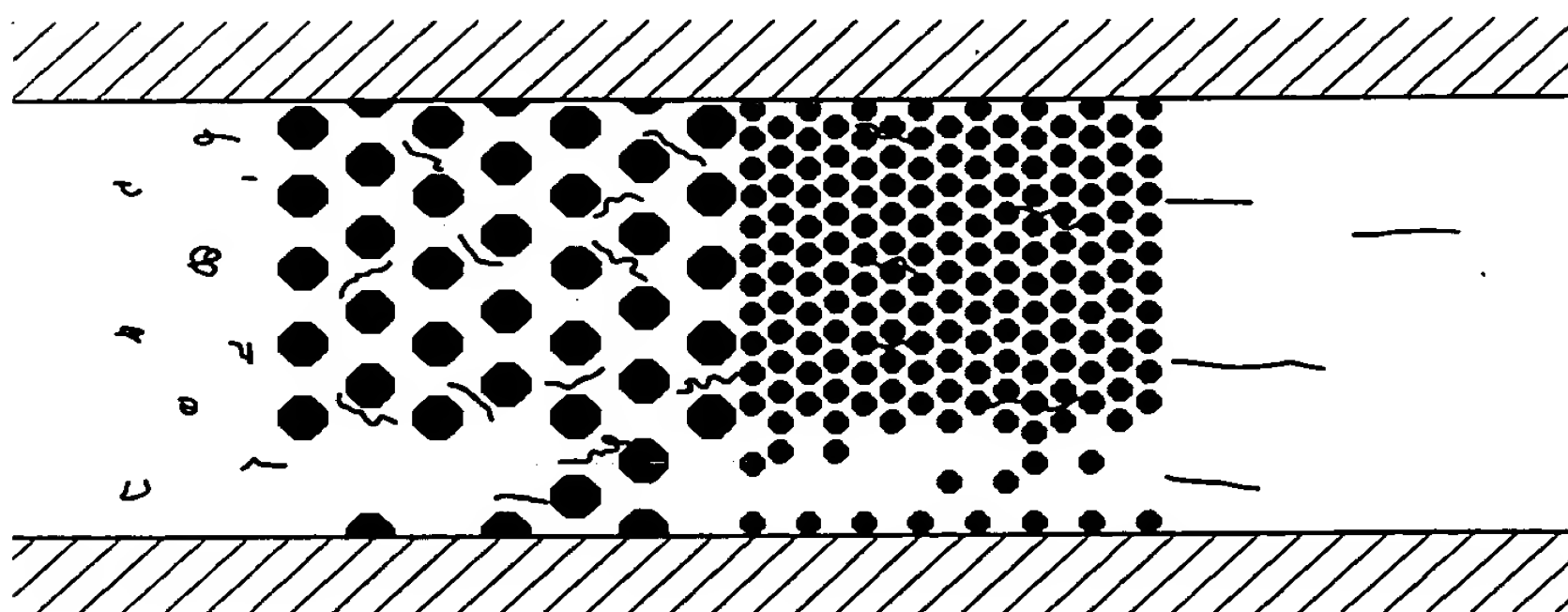


FIG.15

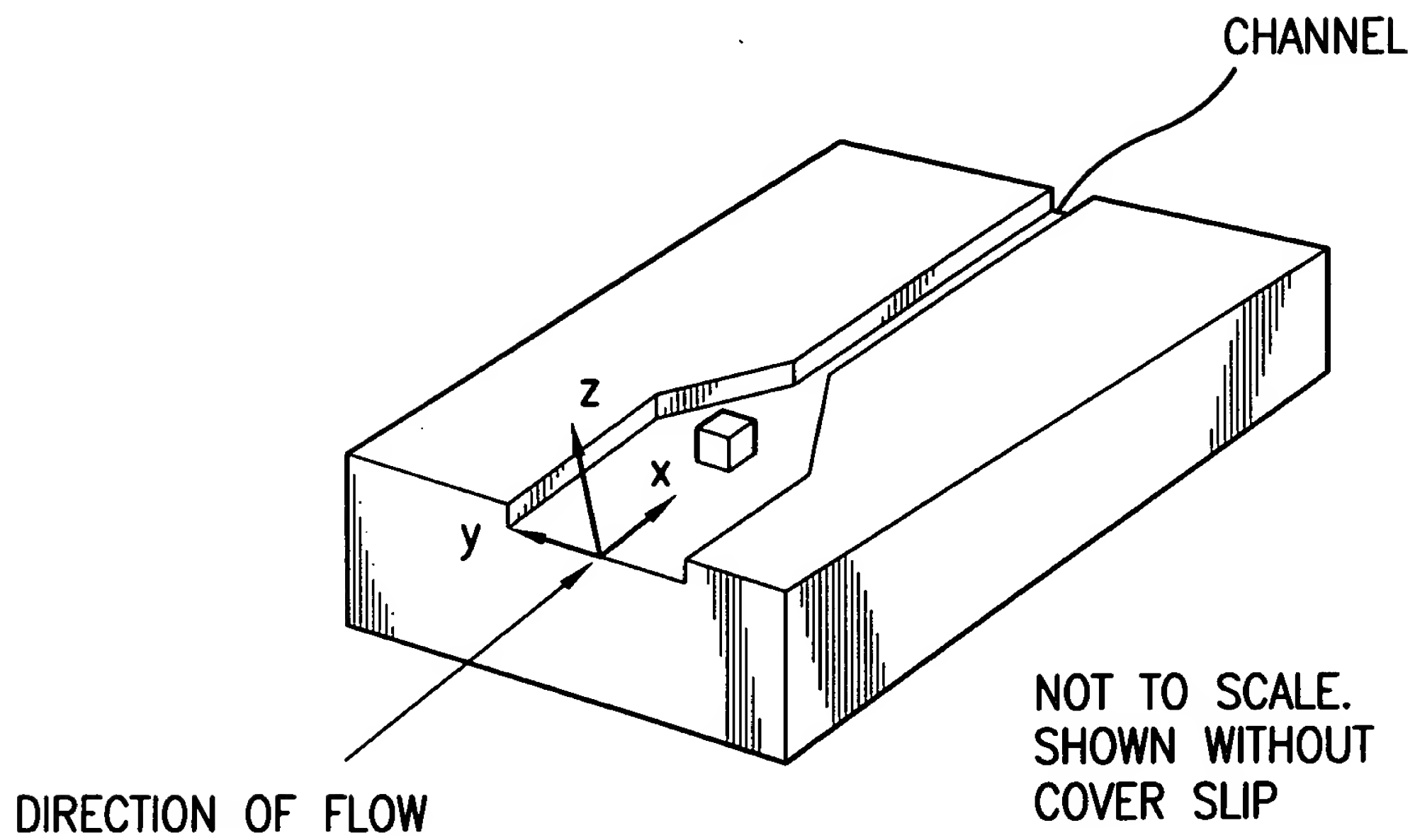


FIG.16

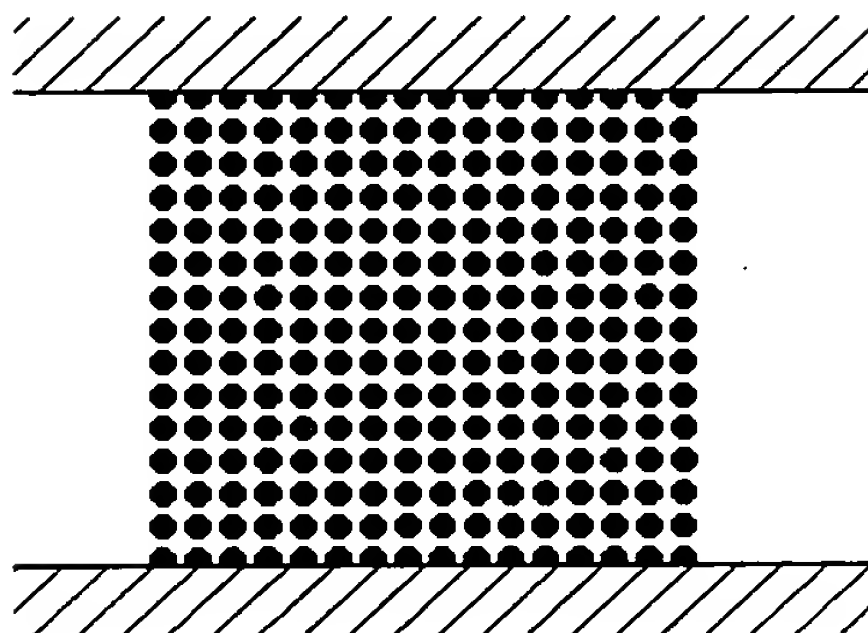


FIG. 17A

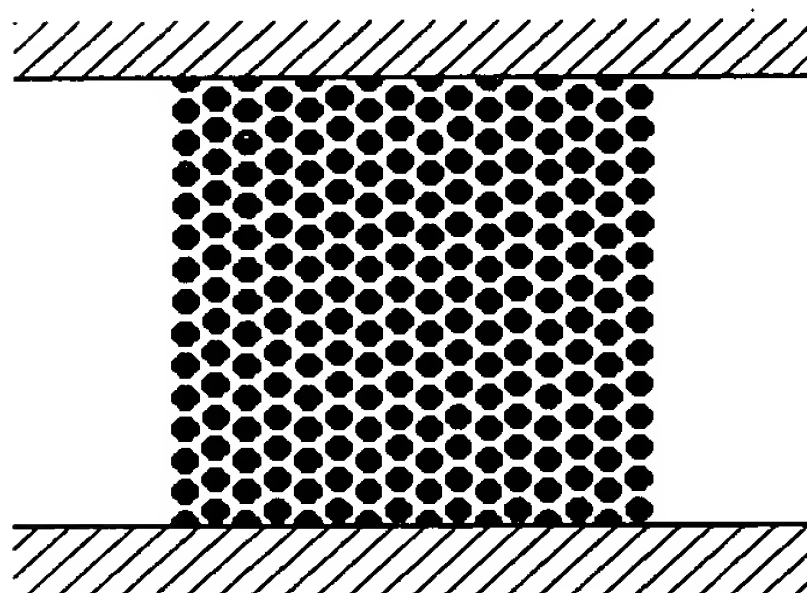


FIG. 17B

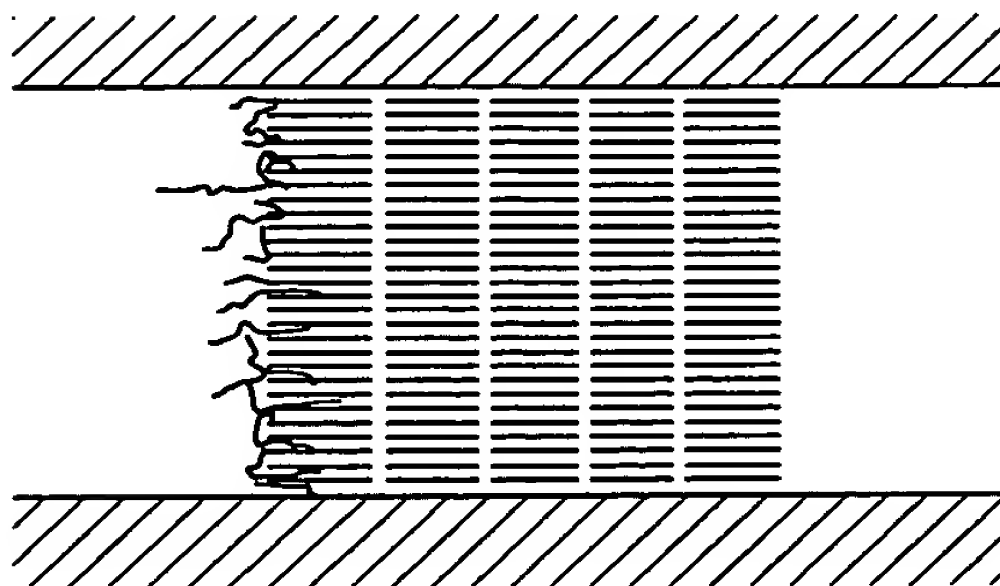


FIG. 18

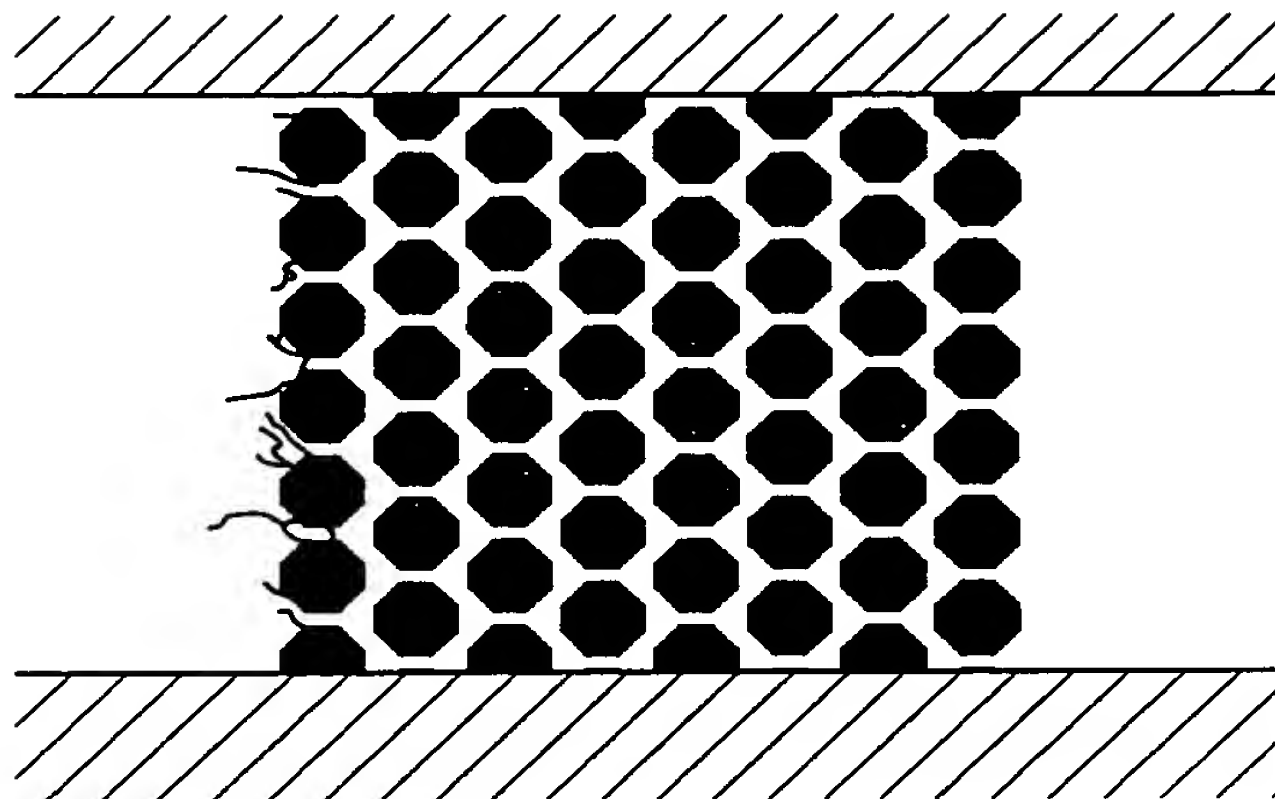


FIG. 19

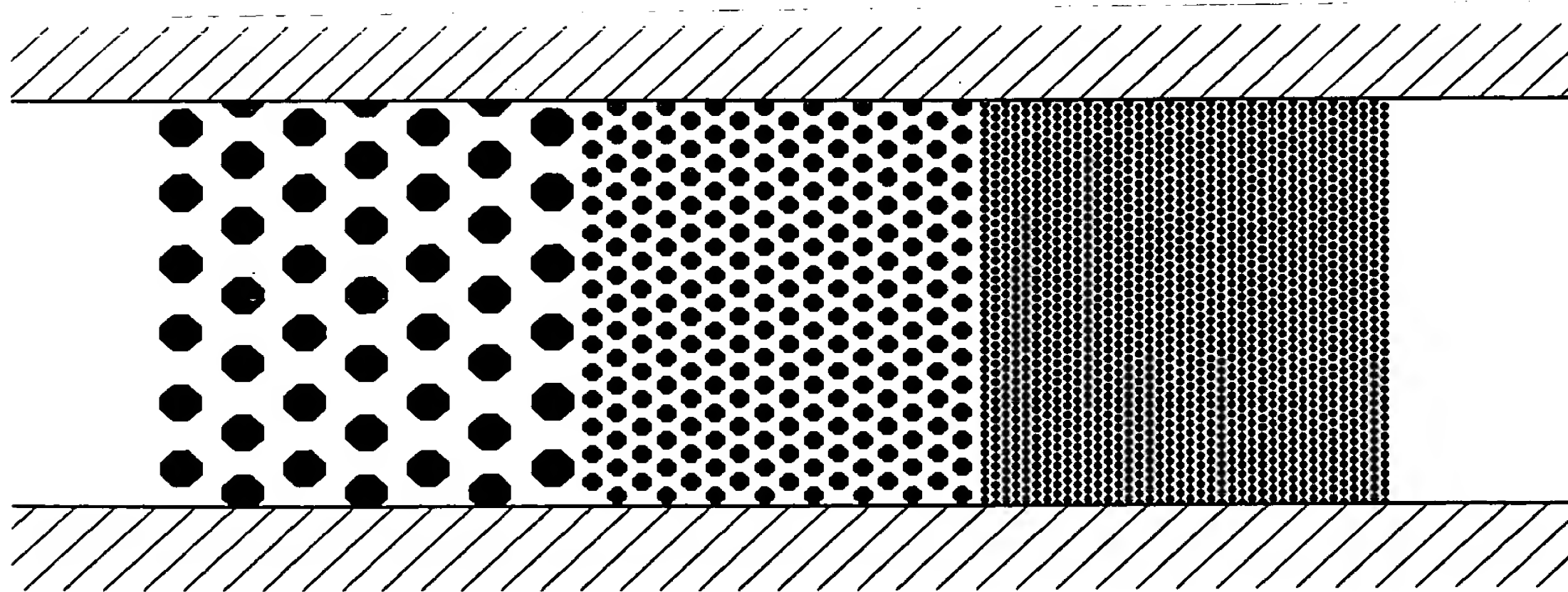
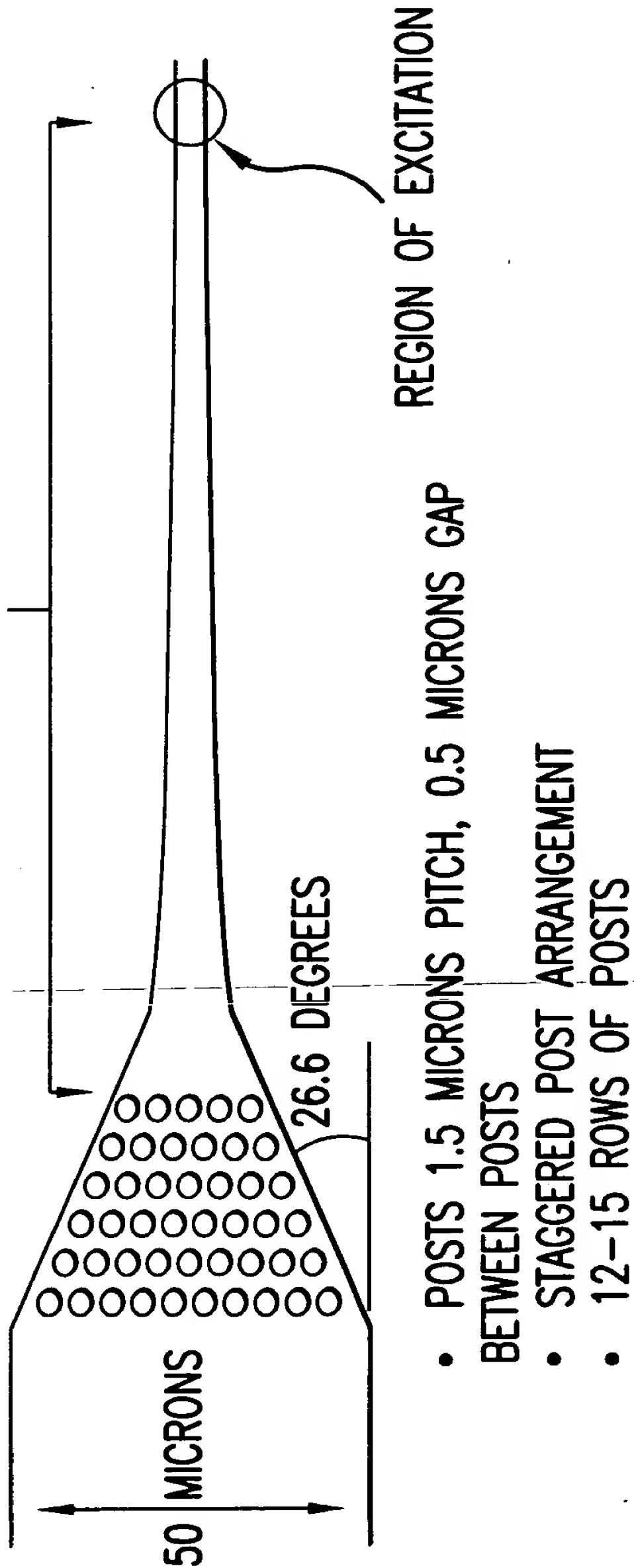


FIG. 20

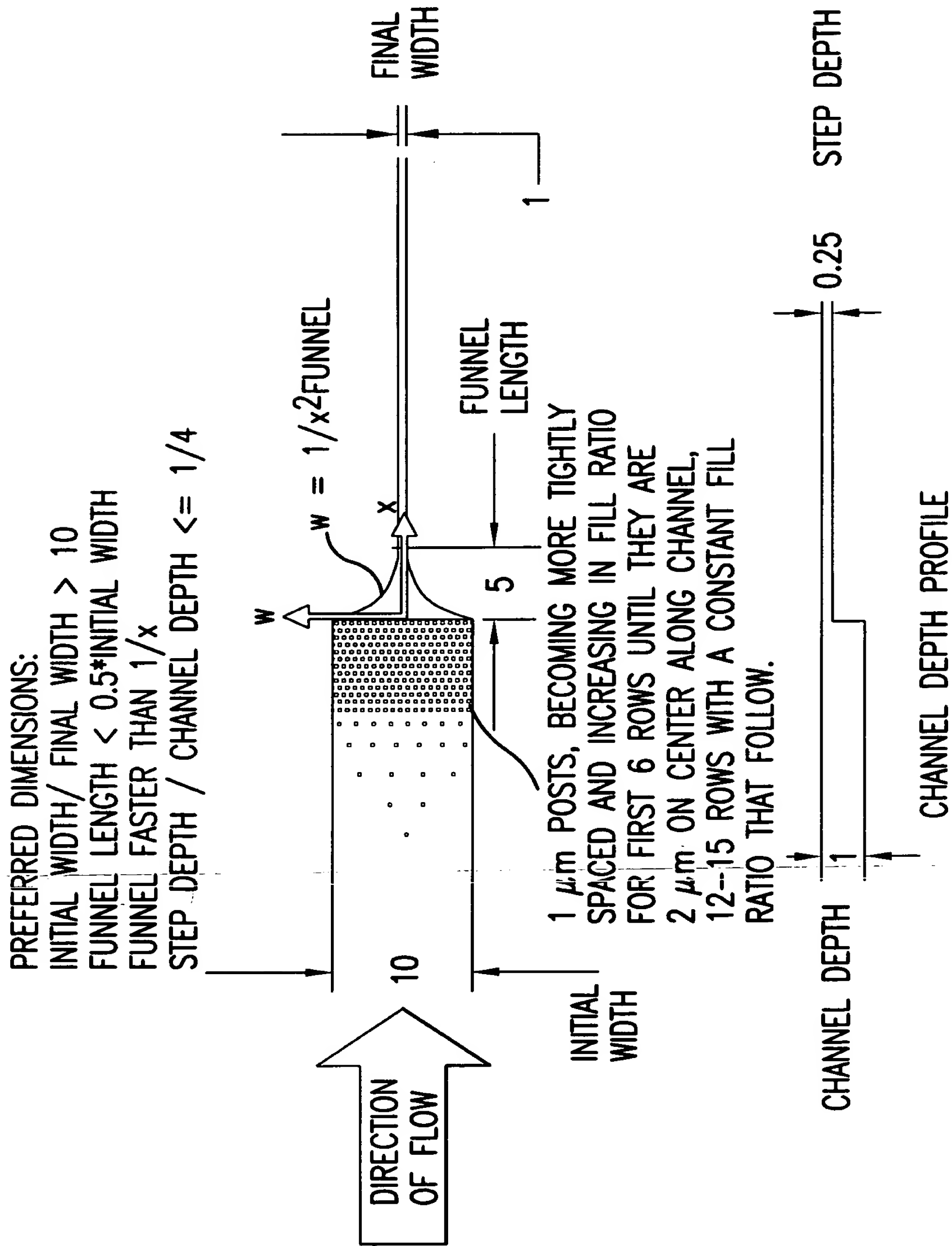
- REGION OF CONSTANT X-DIRECTION SHEAR TO MAINTAIN THE POLYMER IN EXTENDED CONFORMATION AFTER RELEASE FROM THE POSTS

- DISTANCE FROM END OF POST FIELD TO REGION OF EXCITATION 1-3 mm



- POSTS 1.5 MICRONS PITCH, 0.5 MICRONS GAP BETWEEN POSTS
- STAGGERED POST ARRANGEMENT
- 12-15 ROWS OF POSTS

FIG.21



NOT TO SCALE, ALL DIMENSIONS IN μm

FIG.22

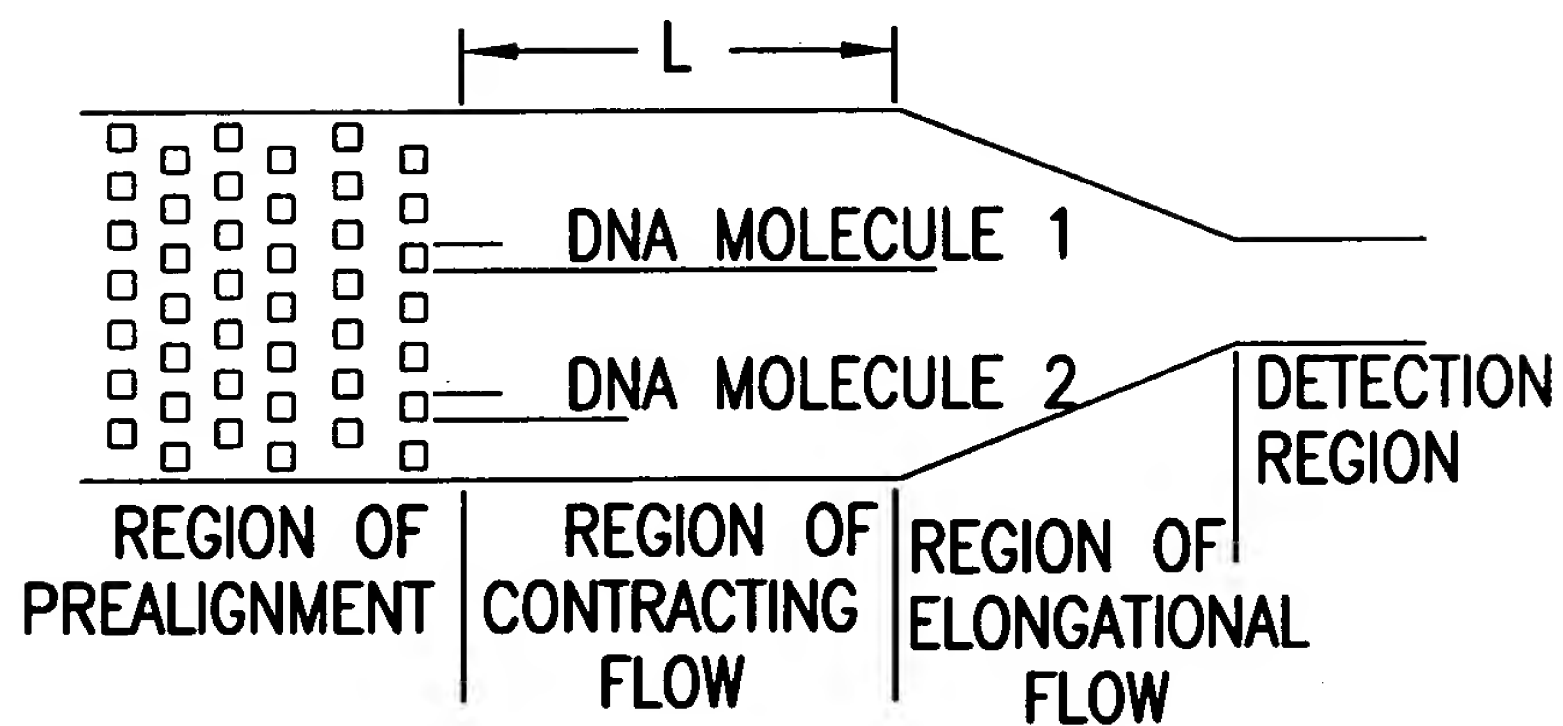


FIG.23

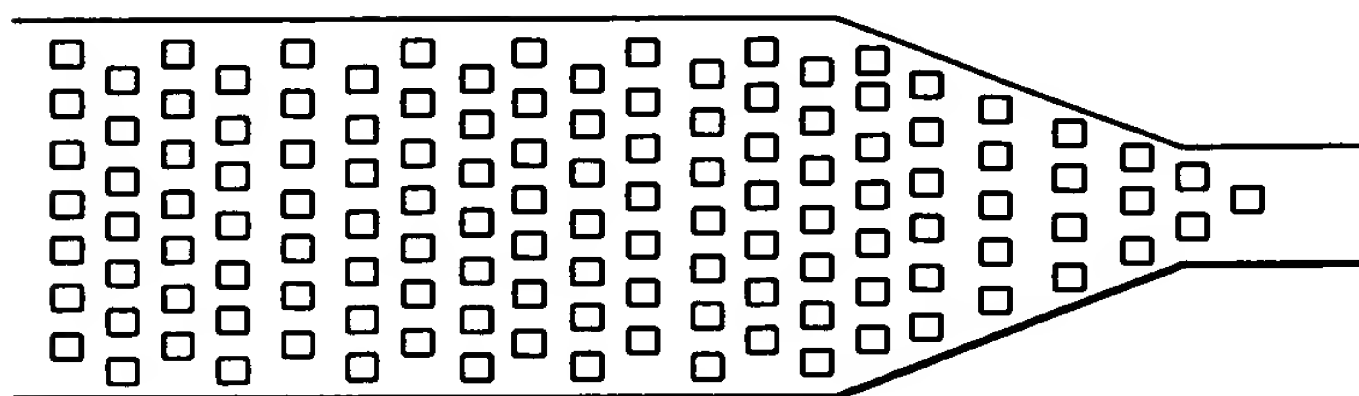


FIG.24

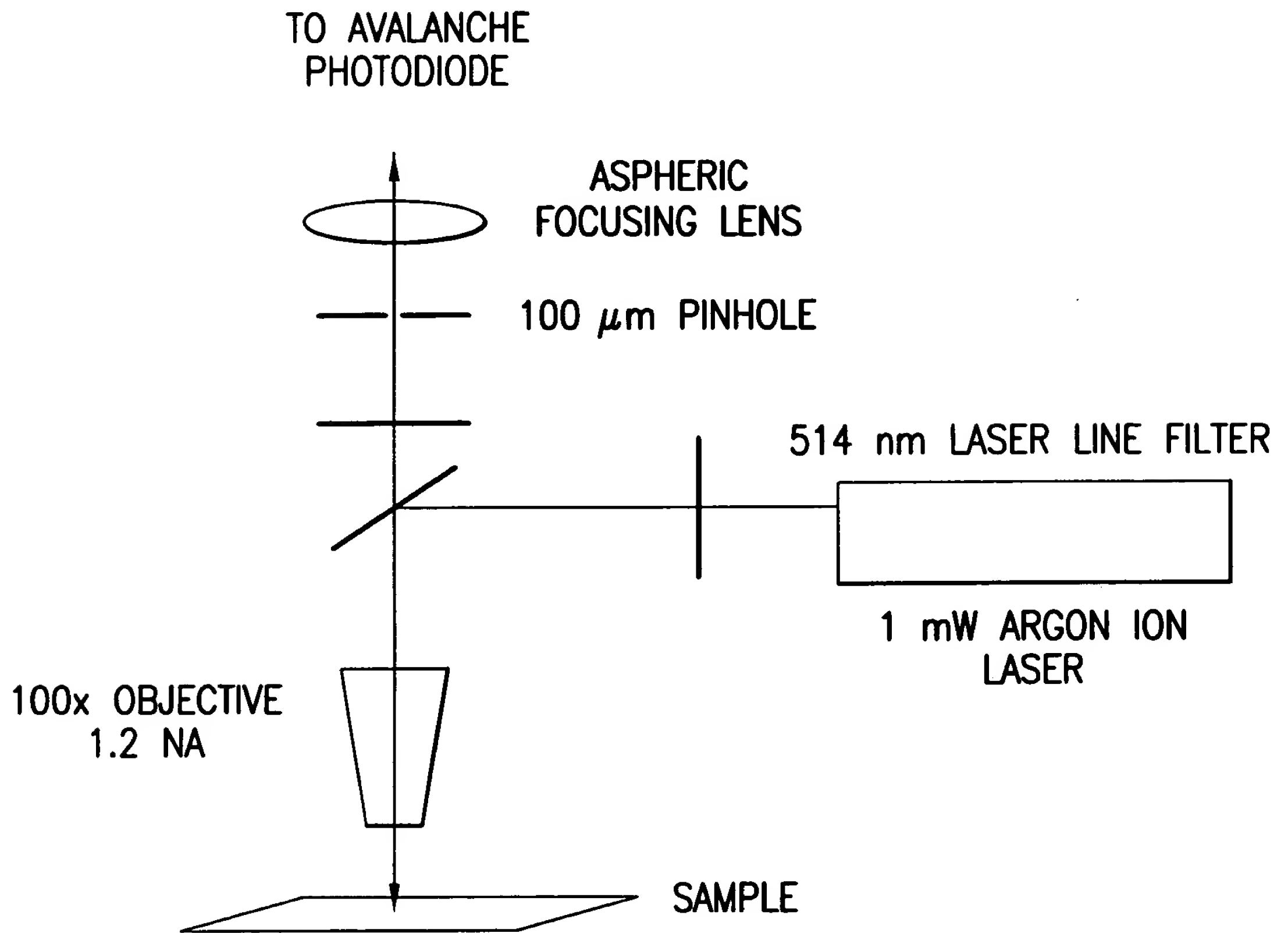


FIG.25

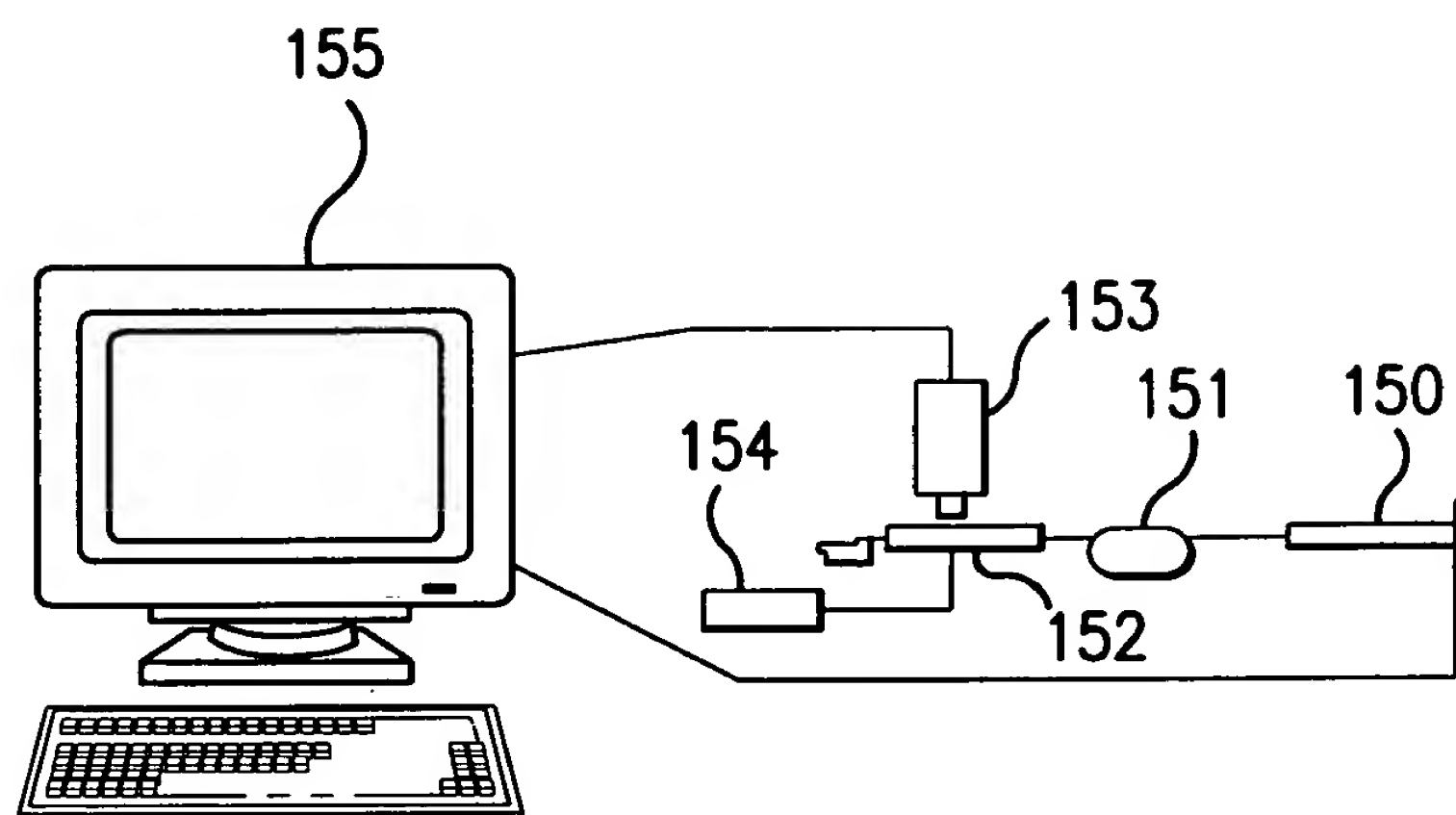


FIG.26

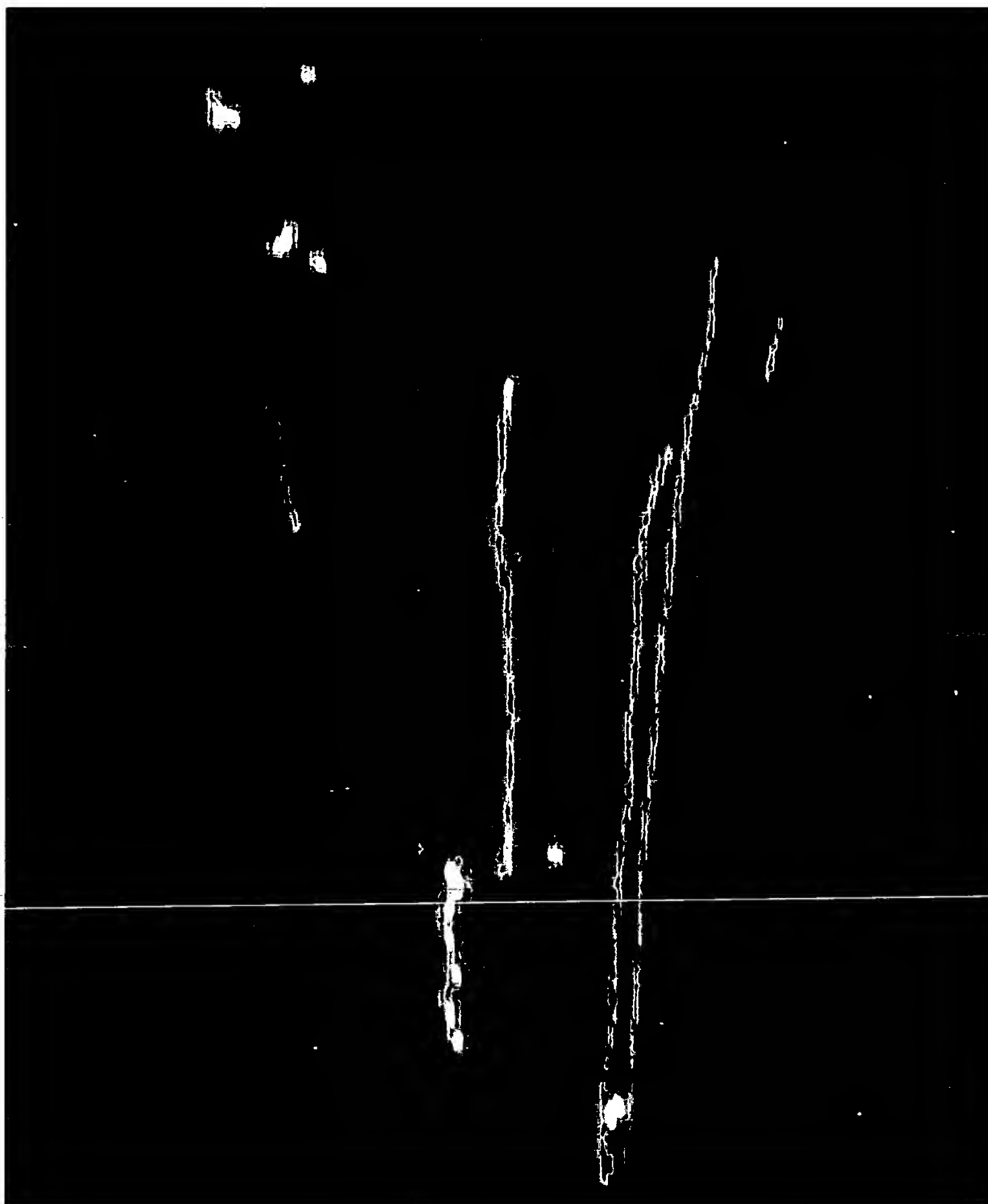


FIG.27



FIG.28A



FIG.28B



FIG.28C



FIG.28D



FIG.28E



FIG.28F



FIG.28G

FIG. 28A is a schematic diagram of a polymer chain. FIG. 28B is a schematic diagram of a polymer chain. FIG. 28C is a schematic diagram of a polymer chain. FIG. 28D is a schematic diagram of a polymer chain. FIG. 28E is a schematic diagram of a polymer chain. FIG. 28F is a schematic diagram of a polymer chain. FIG. 28G is a schematic diagram of a polymer chain.

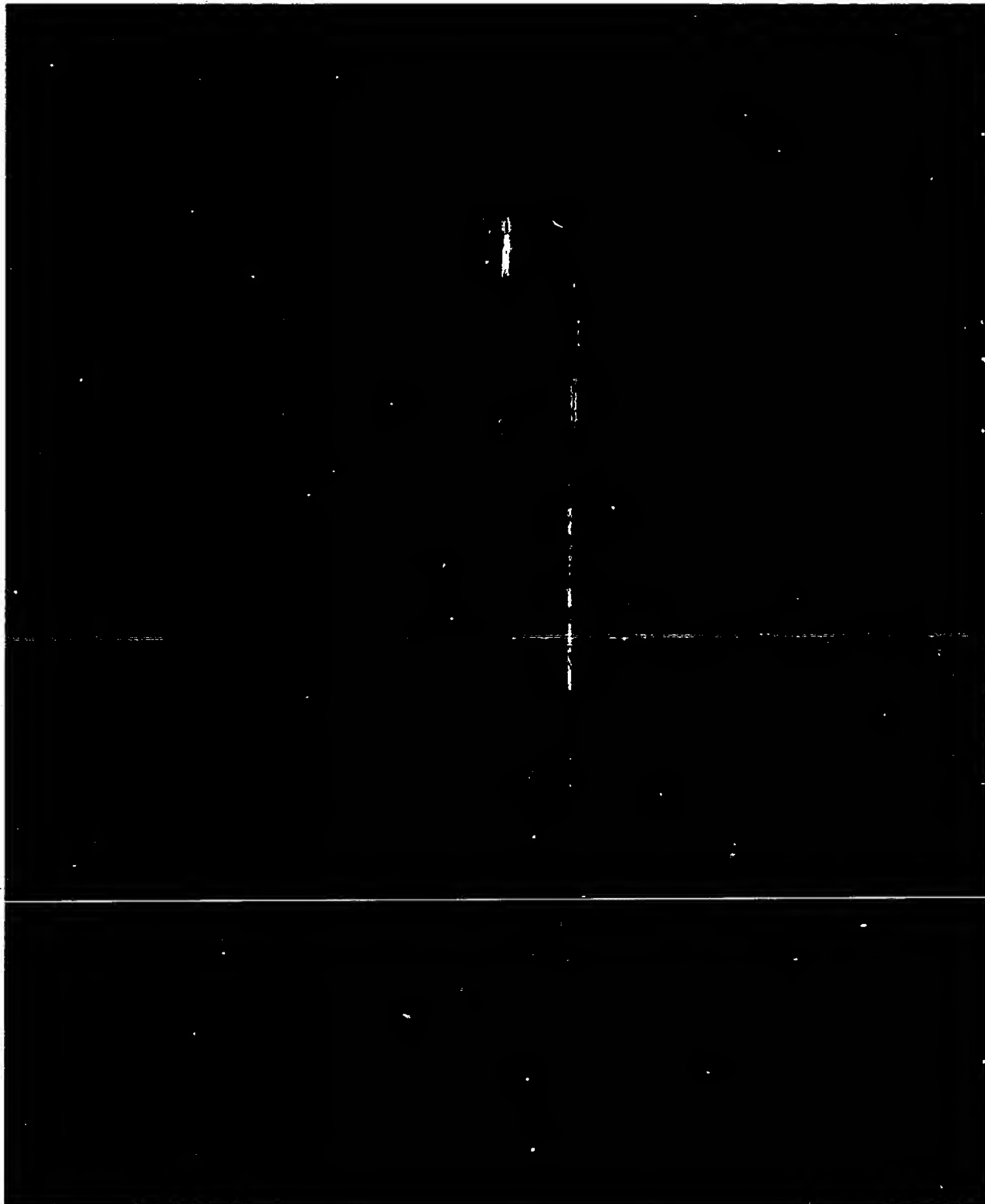


FIG. 29

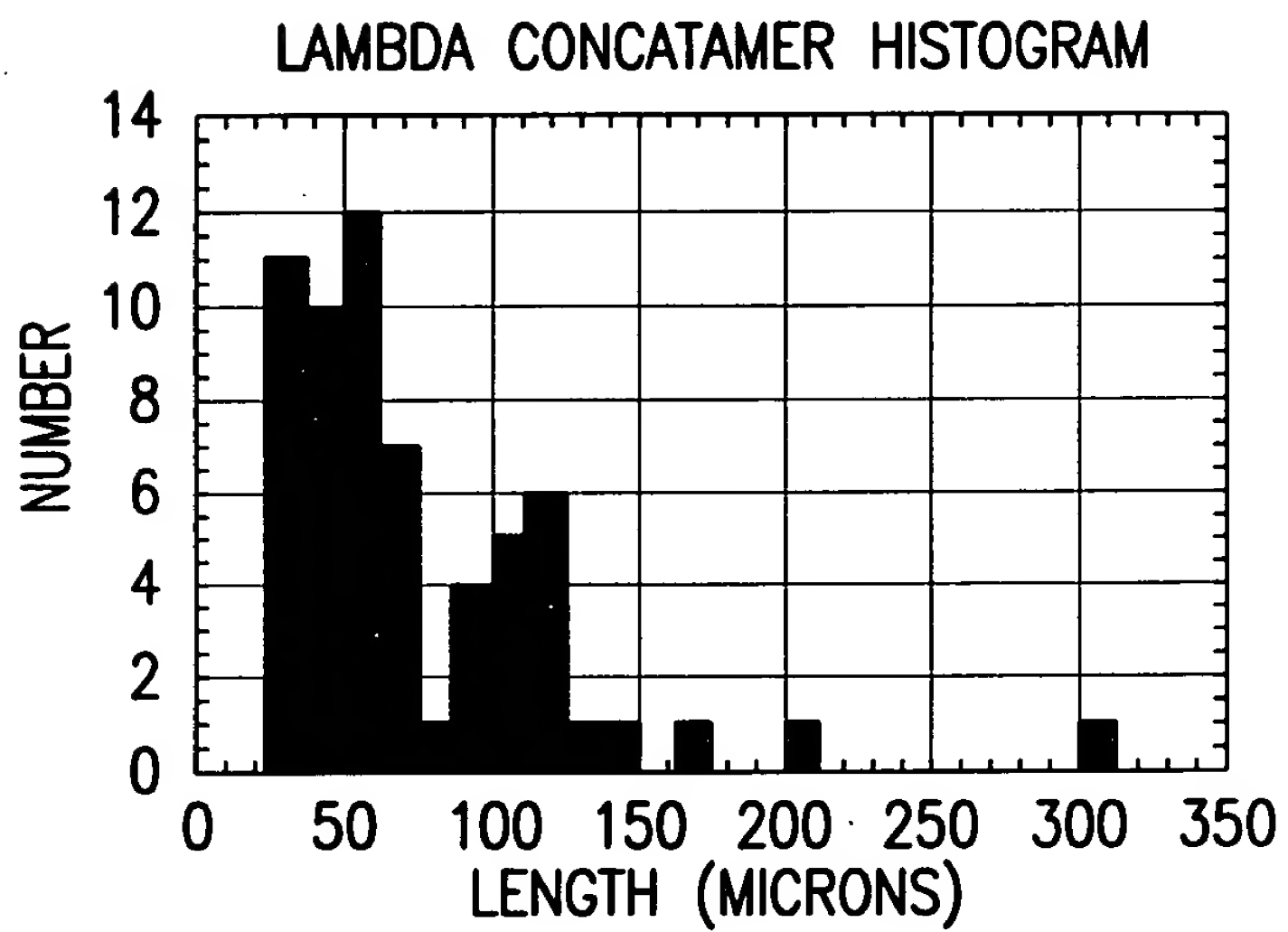
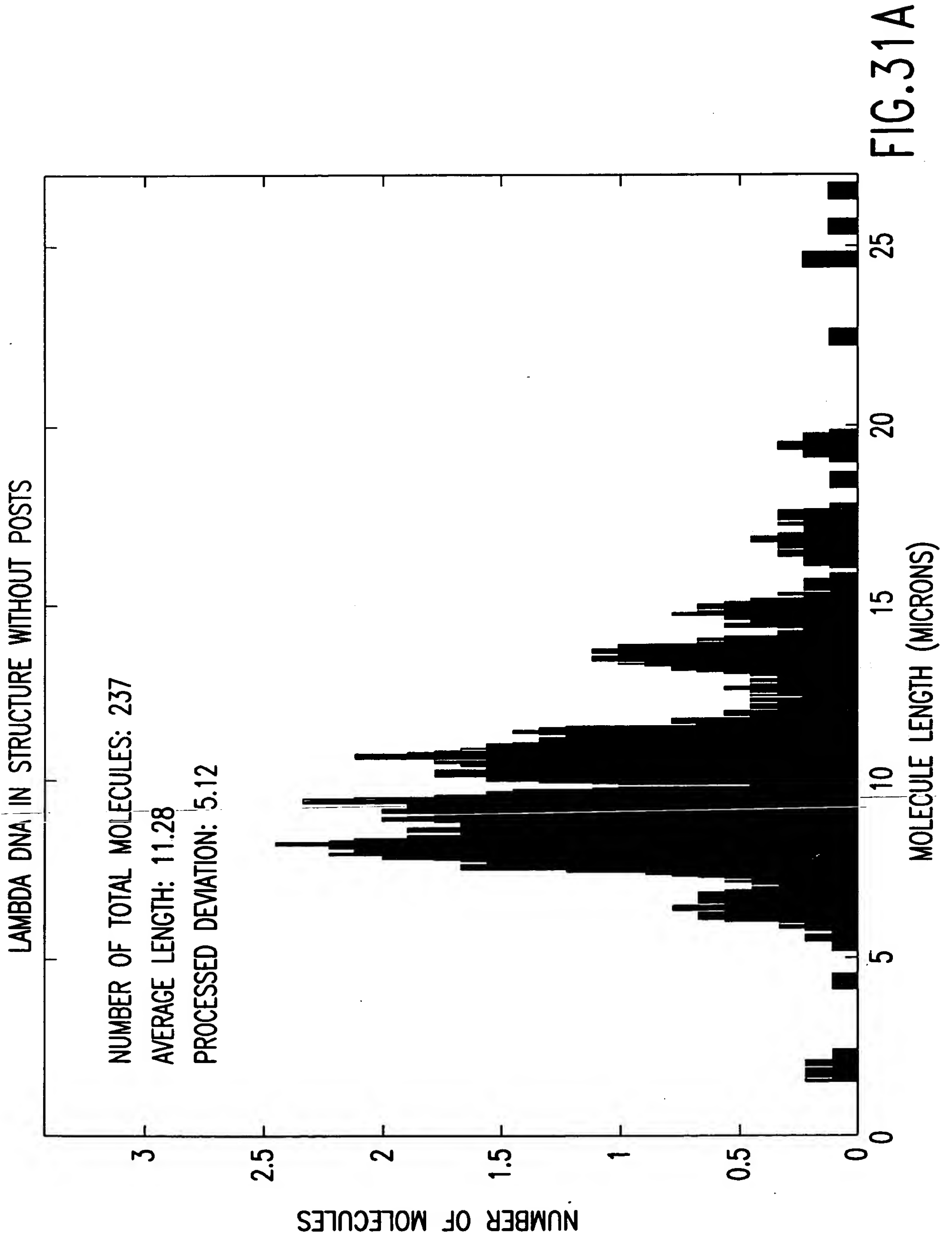


FIG.30



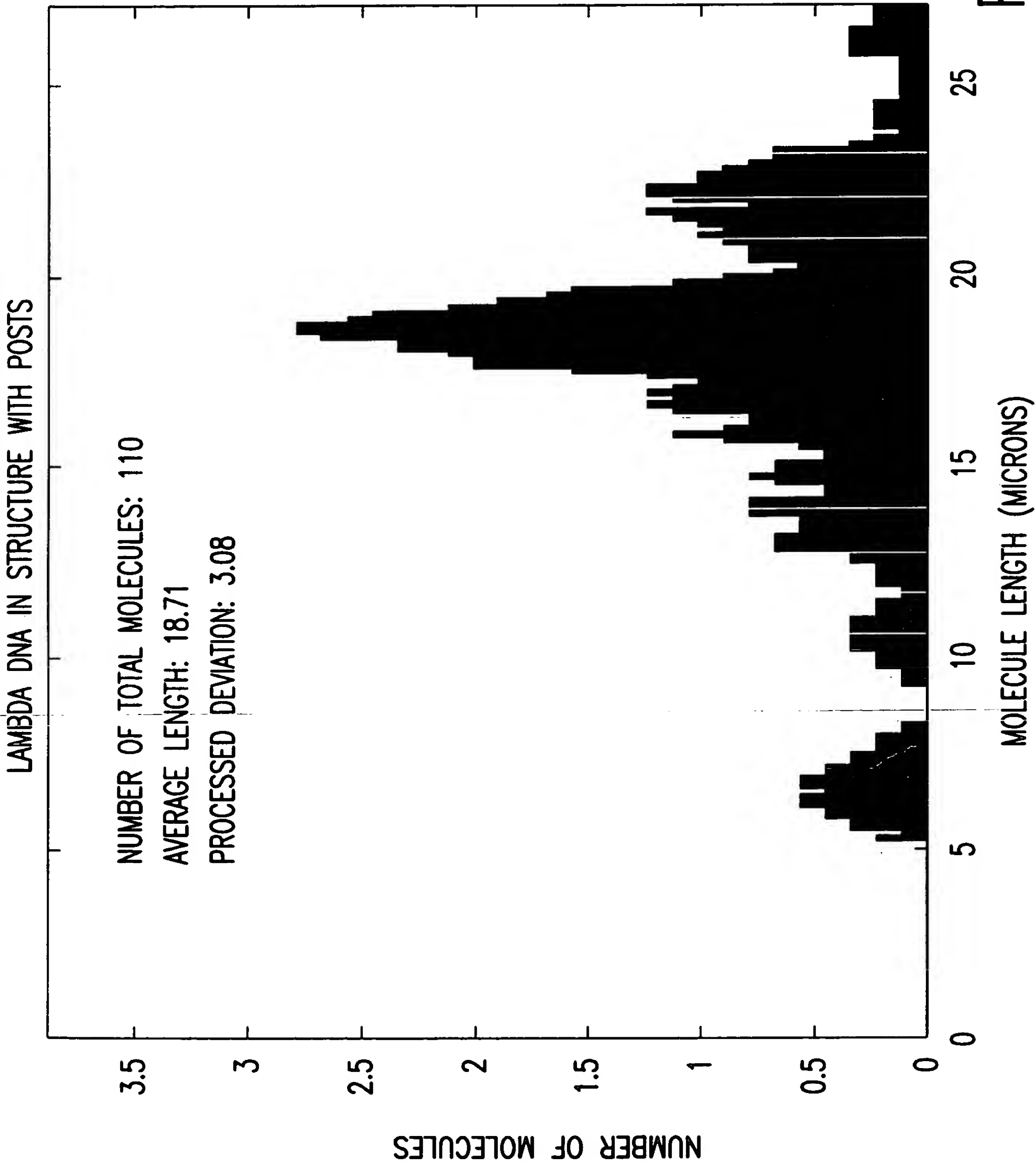


FIG. 31B

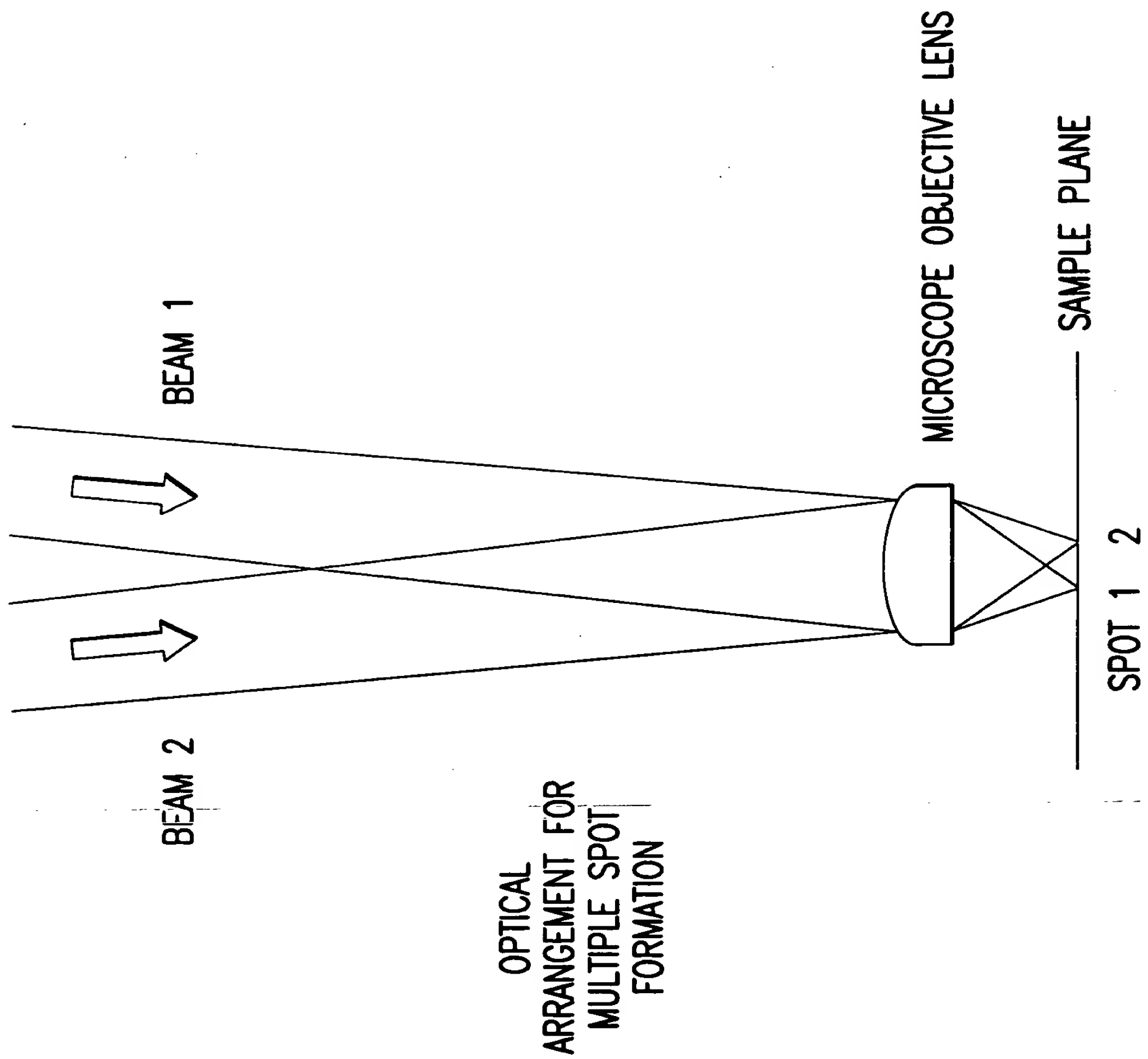


FIG.32

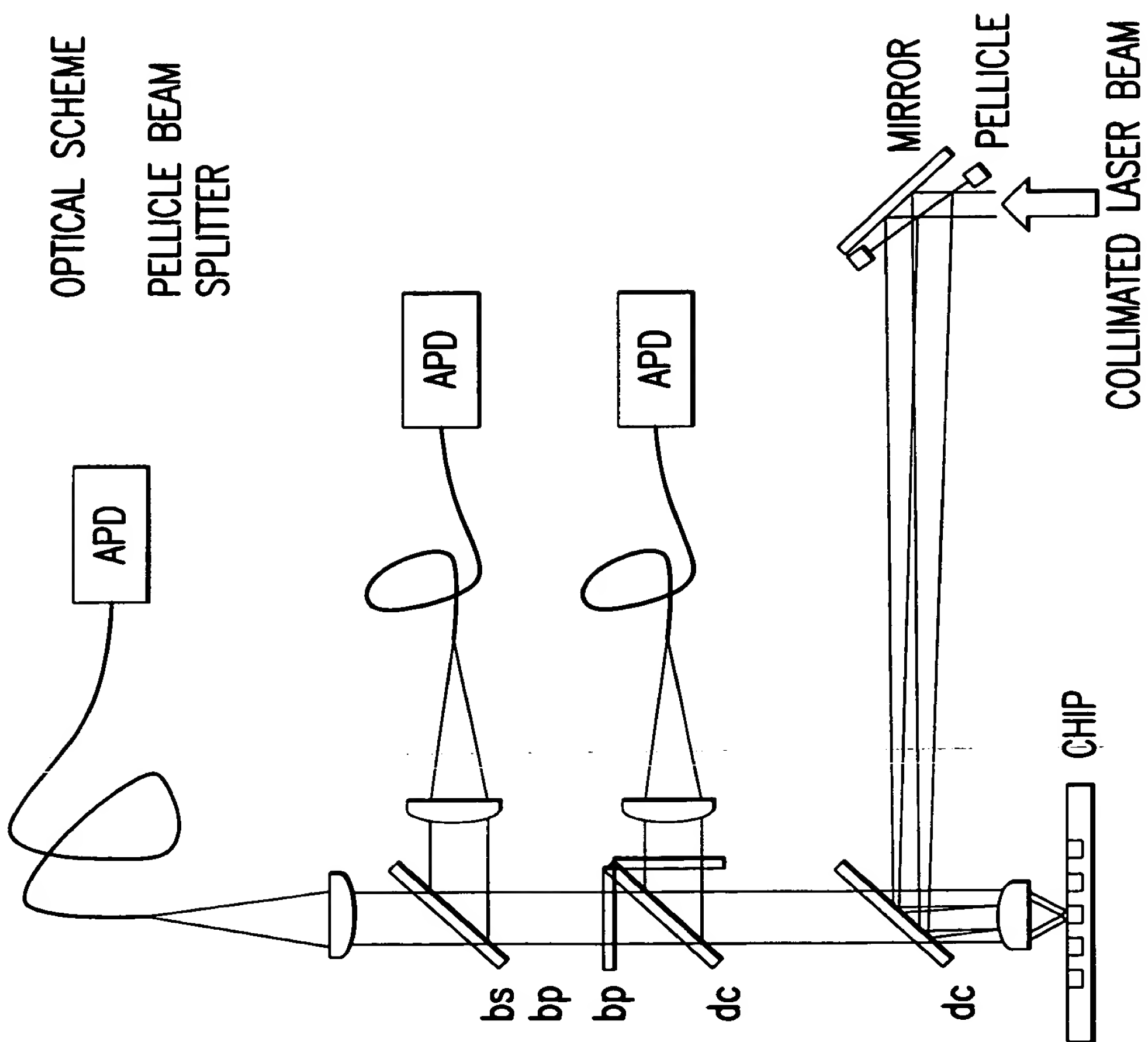


FIG.33

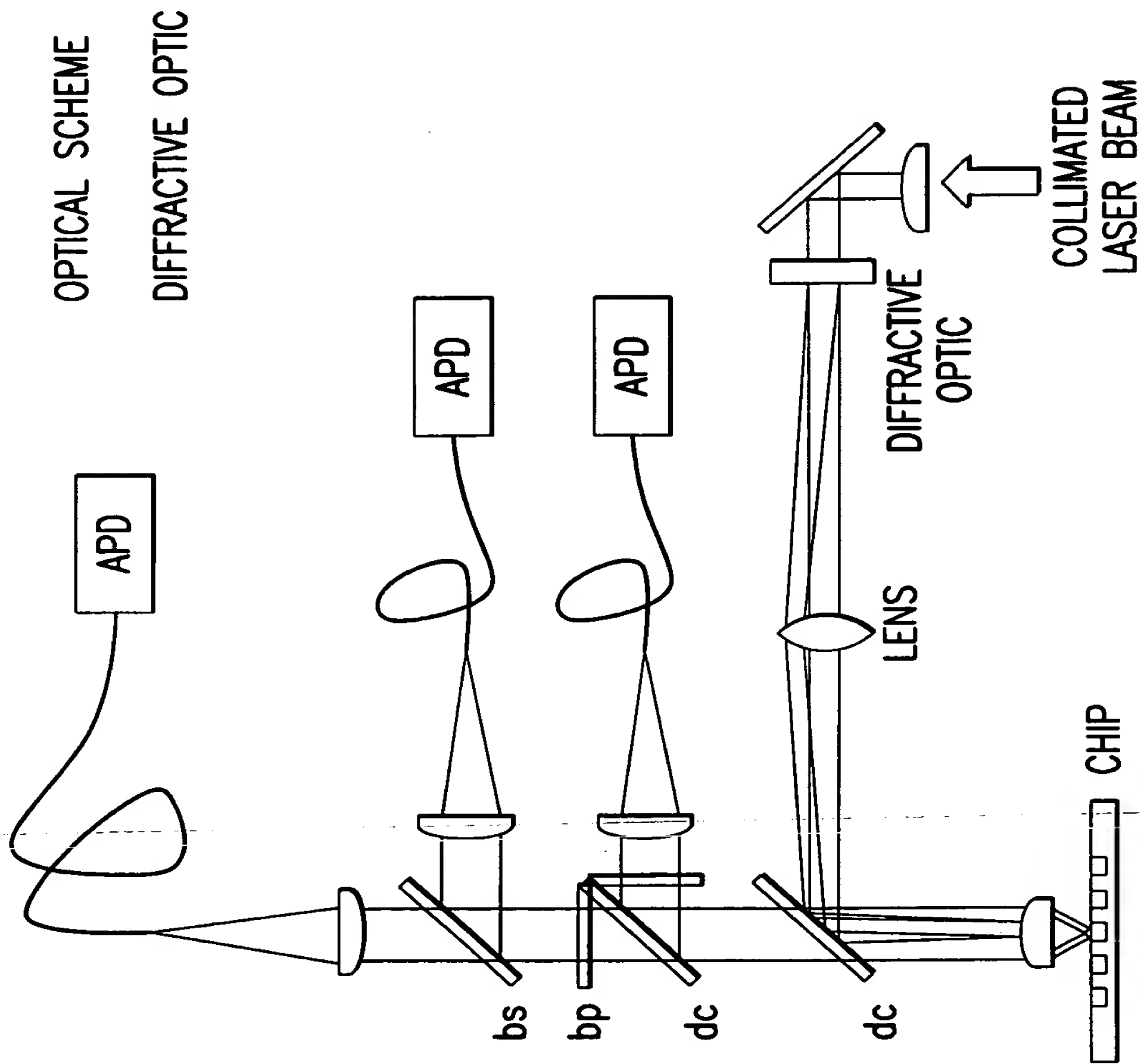


FIG. 34

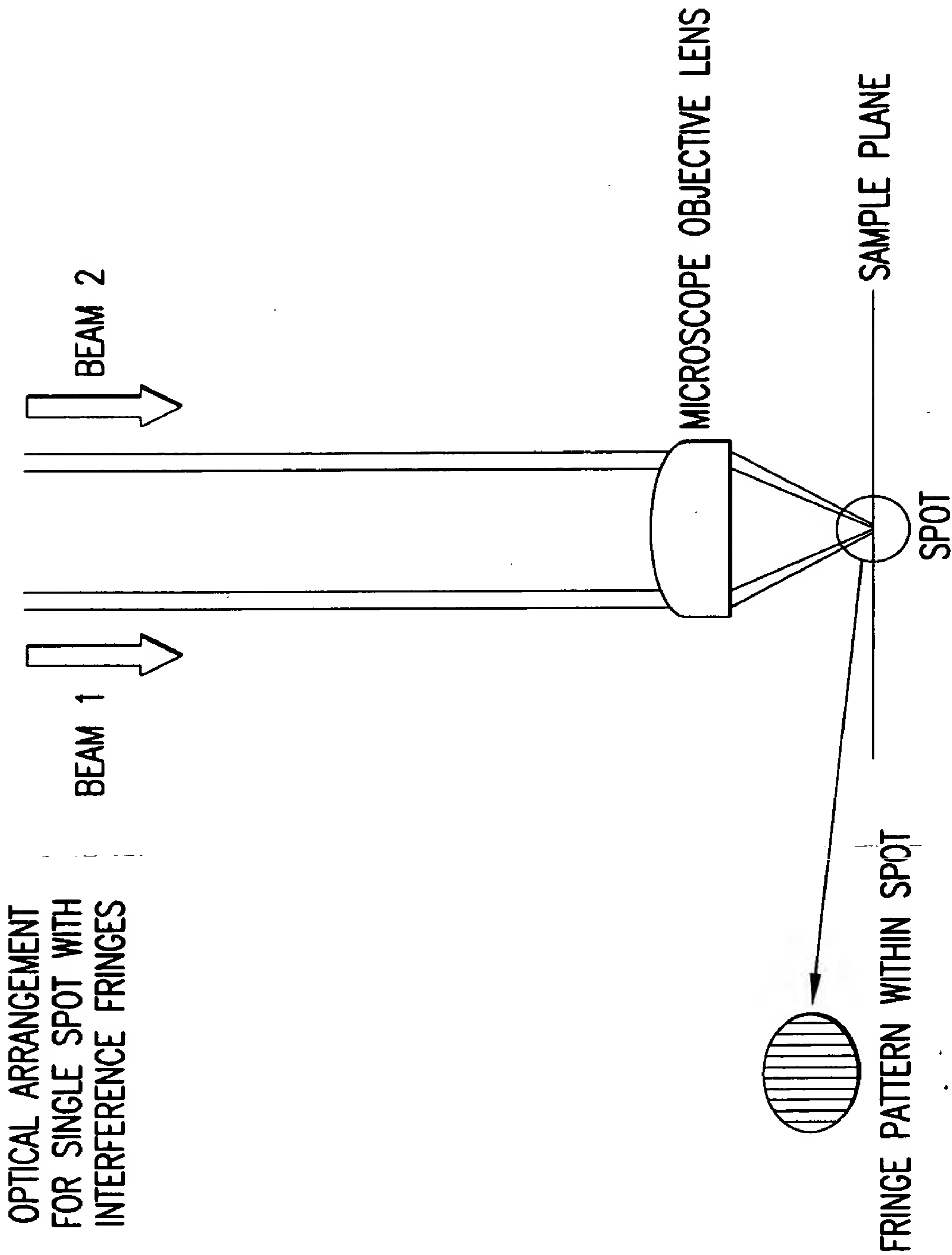


FIG.35

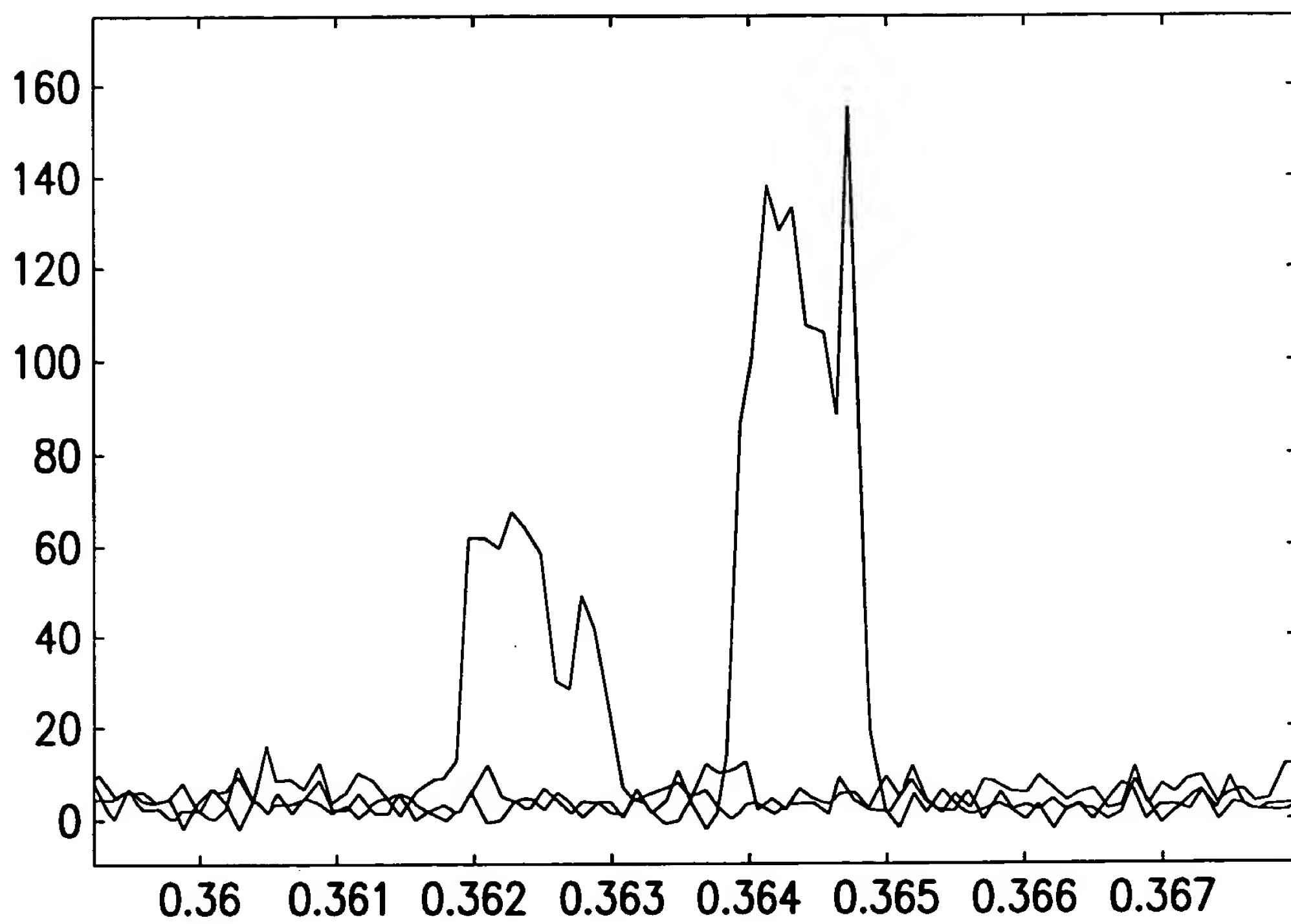


FIG.37B

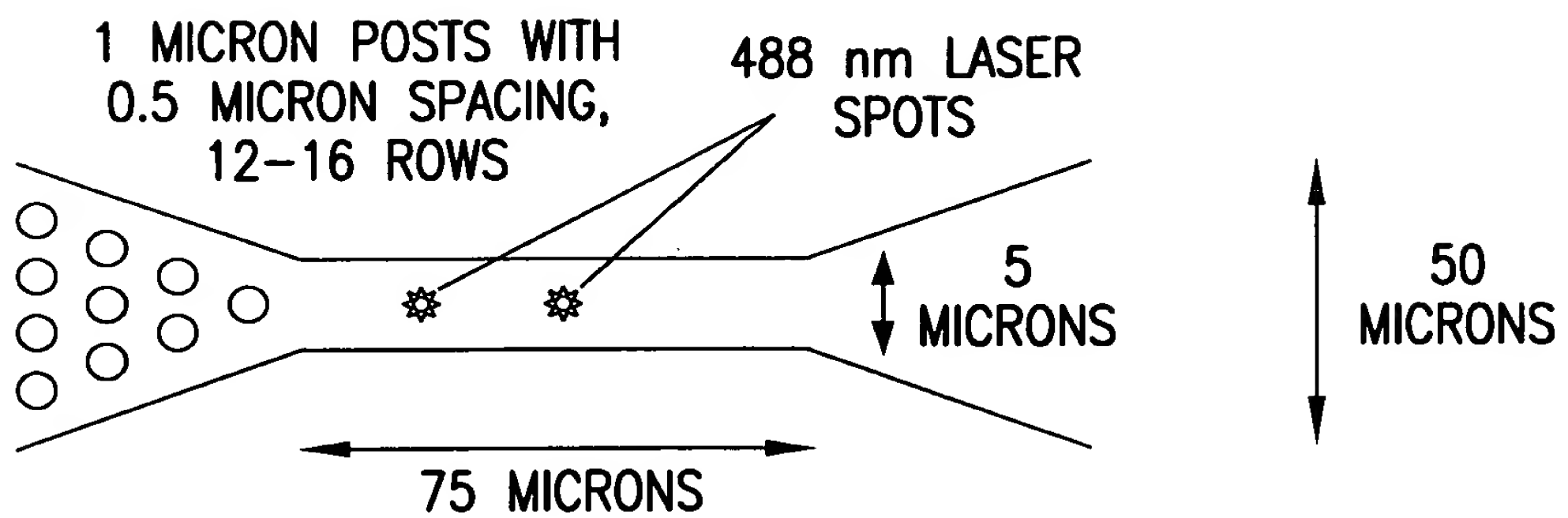


FIG.36

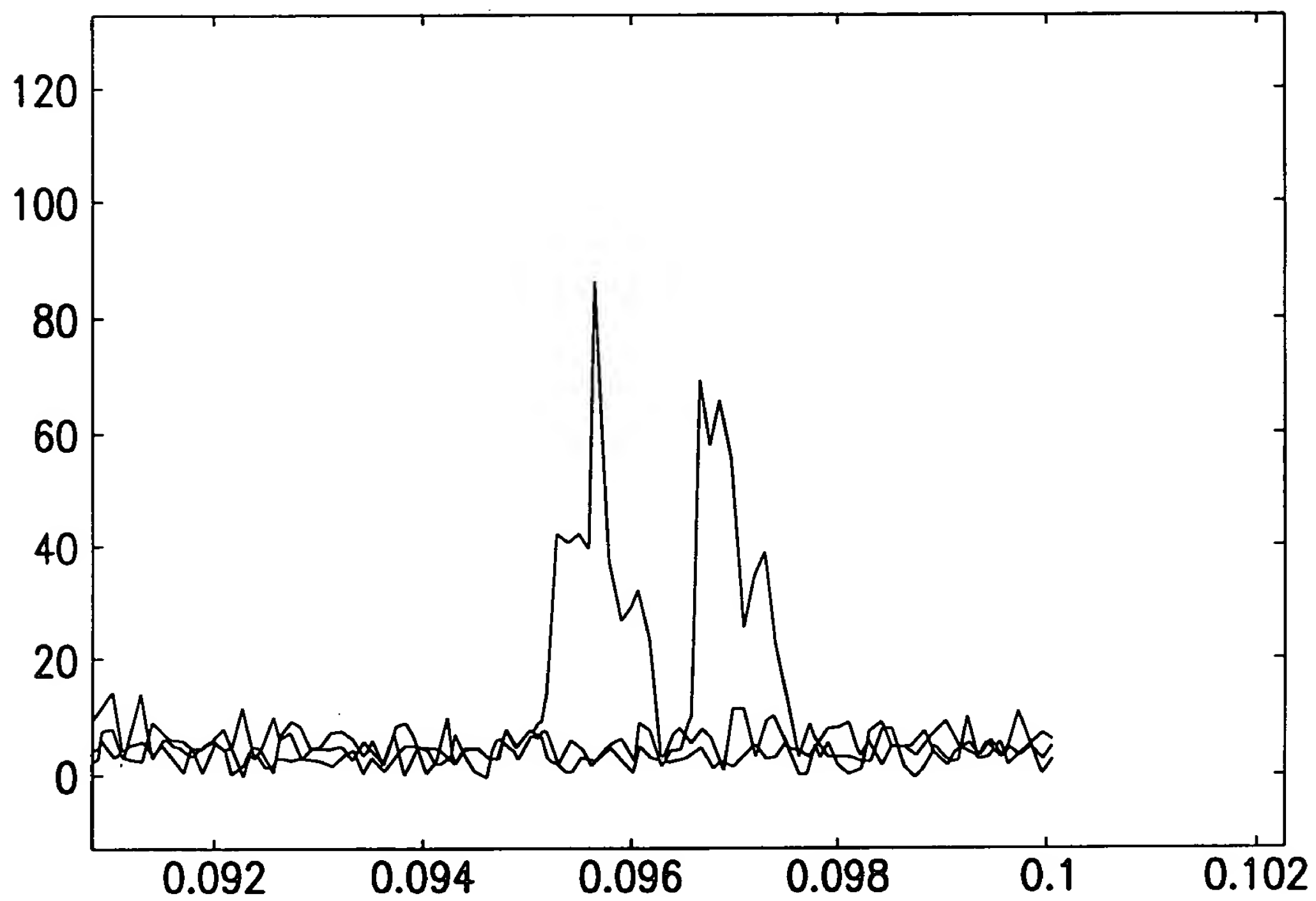


FIG.37A

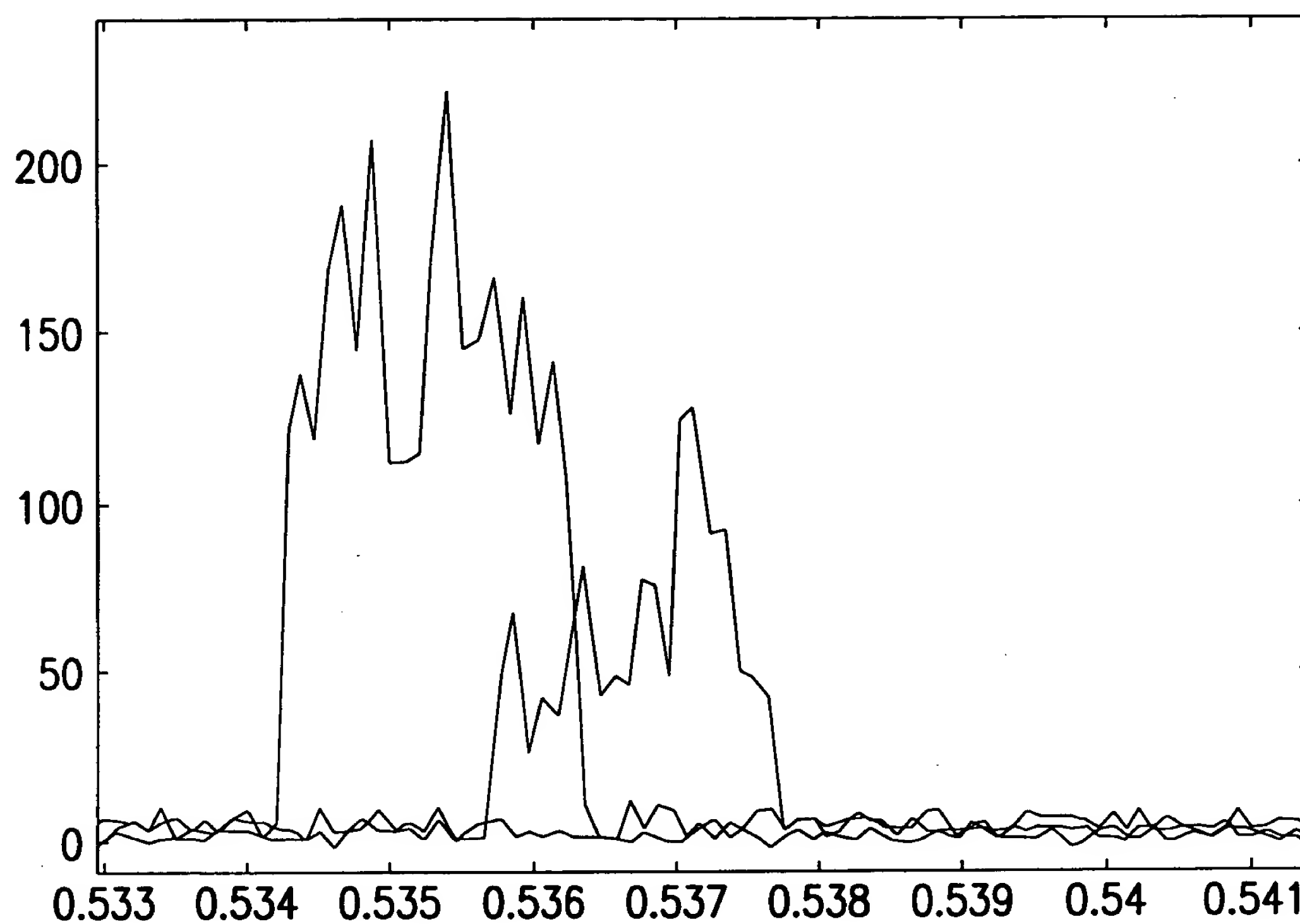
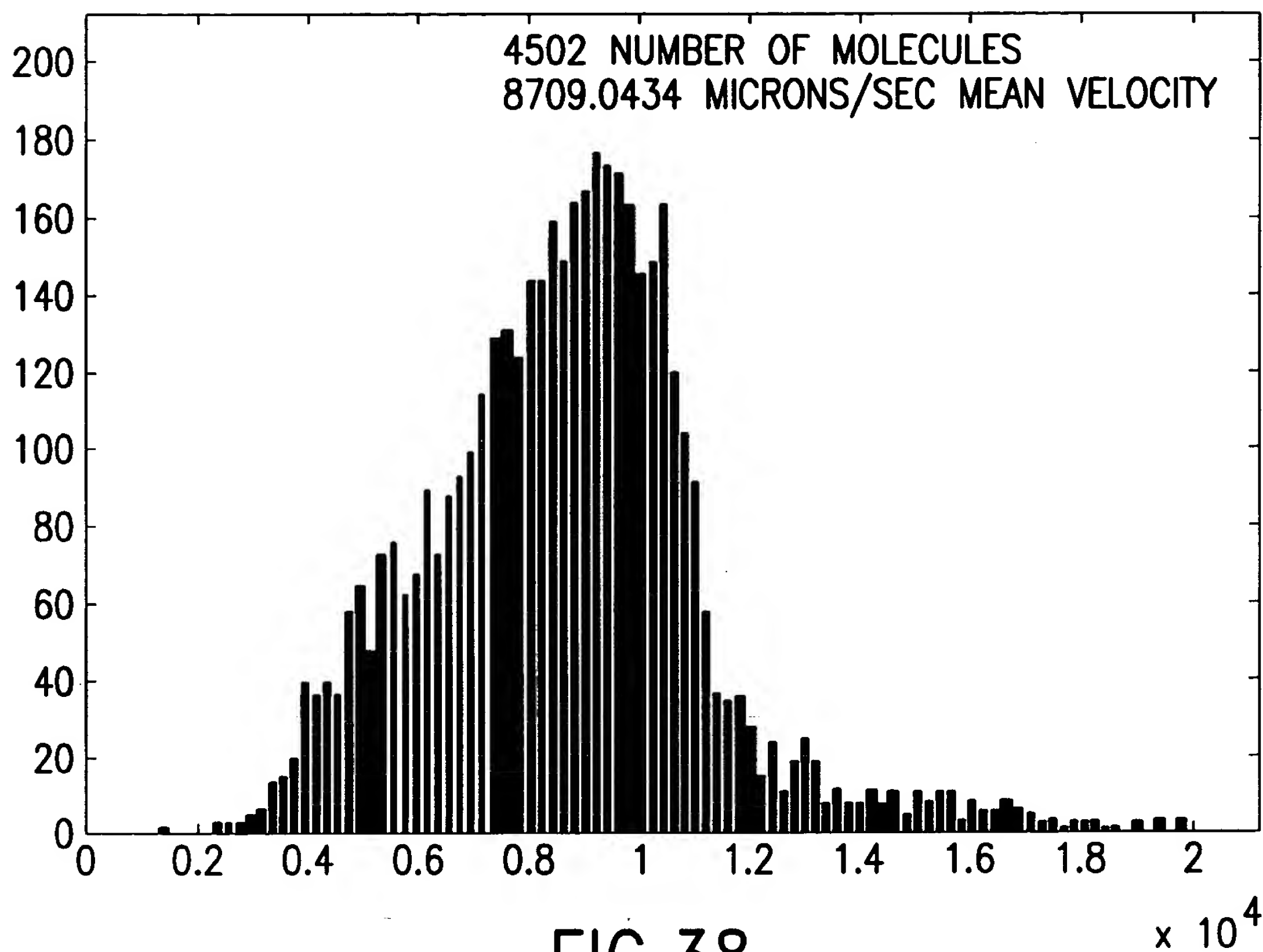


FIG.37C



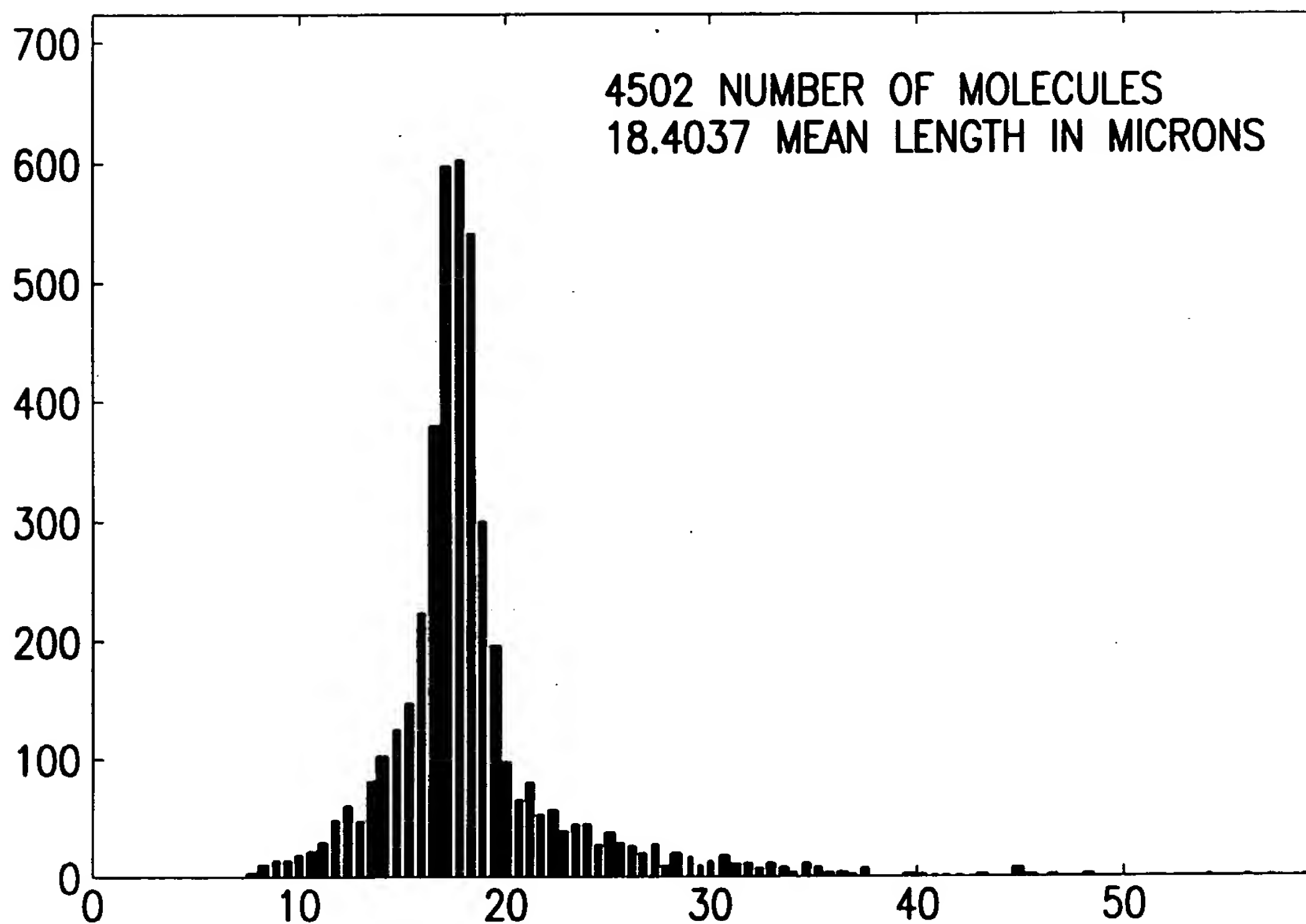


FIG.39